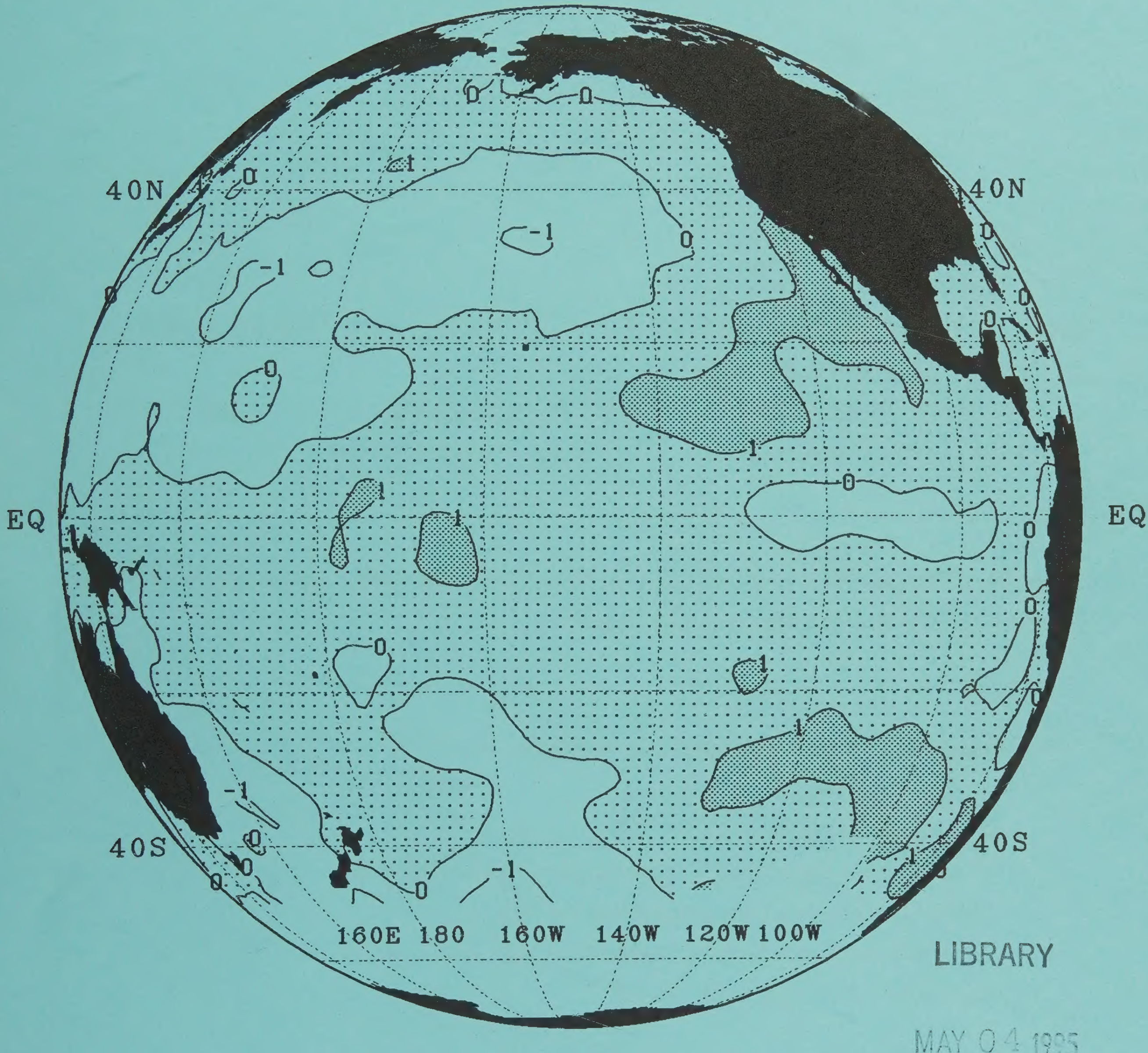
気象庁海洋月報

Monthly Ocean Report

March 1995 (No. 27)



El Niño Monitoring Center
Japan Meteorological Agency

気象庁海洋気象部海洋課
エルニーニョ監視センター

平成7年3月

気象庁海洋月報は、気象庁海洋気象部海洋課エルニーニョ監視センターで作成されています。
本月報に関する問い合わせは、

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Monthly Ocean Report is prepared by the El Niño Monitoring Center, Oceanographical Division, Marine Department, Japan Meteorological Agency.

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表紙は、1995年3月の太平洋の月平均海面水温偏差図です。
陰影部は、平年より高温の海域を示しています。

The figure on the front cover shows the monthly mean SST anomalies for March 1995 in the Pacific Ocean.
Areas of positive anomalies are shaded.

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海況の特徴（１９９５年３月）

太平洋の海況

太平洋赤道域の海面水温は、130° W以西では平年より高く、特に170° W付近では平年より１℃以上高かった。一方、130° W以東は1994年10月以降正編差が続いていたが、弱い負偏差に転じた。エルニーニョ監視海域（4° S～4° N、150° W～90° W）の海面水温偏差は、0.0℃だった（第１表、第１図、第６図）。

赤道に沿う表層水温断面図では、170° W以東で、水温躍層に沿って負偏差域が広がり、水温躍層の深さは平年に比べて浅かった。特に、150° W以東では２月に比べて負偏差が強まった（第9図）。

図Ａに海洋データ同化システムによる赤道に沿う表層水温断面図及び偏差図を1994年12月下旬から1995年3月中旬にかけて20日毎に示す。偏差図では日付変更線以東で12月に見られた表層の正偏差は３月には完全に負偏差に置き換わっている。

北太平洋では、40° N以北のほぼ全域とカリフォルニア半島南西方で平年より高かった。特に、カリフォルニア半島南西方の正偏差域は先月より広がり、130° Wと115° W付近では平年より1.5℃以上高くなった。一方、30° Nの160° Eから150° W付近にかけて平年より1℃前後低かった。また、日本の南からフィリピンの東にかけて負偏差となっていた。（第6図）。

日本近海の海況

日本近海は、北海道南方と関東東方で平年より低いほかは、全般に平年より高く、特に日本海中部では1.5℃以上高かった（第24図）。

本年1月下旬に九州南東方で発生した黒潮の小蛇行は3月上旬には四国沖に、中・下旬には紀伊水道沖に達した。紀伊半島より東では月を通じて本州南岸に沿って流れ、三宅島の南を経て東に流れていた（第27図）。

本州東方の親潮系の冷水（深さ100mで5℃以下）は38.8° N，143.5° Eまで達していた（第26図）。

熱帯の気象

熱帯域の対流活動は、太平洋西部で平年より活発、日付変更線付近で平年より不活発となり、2月までの傾向が反転した。また、太平洋赤道域の下層の東西風は全域で東風偏差となった。南方振動指数（ＳＯＩ）も、+0.4と13か月ぶりに正の値に転じた（第１表、第3～5図、第12図）。

［気象庁長期予報課提供］

HIGHLIGHTS March 1995

Pacific

Sea surface temperatures (SSTs) were above normal west of 130°W in the equatorial Pacific, in particular positive SST anomalies of greater than 1°C are found near 170°E. On the other hand, positive SST anomalies east of 130°W which had continued since October 1994 were replaced with slight negative anomalies. The SST index for region B (Fig. 6) was 0.0°C (Table 1 and Figs. 1 and 6).

Depth-longitude sections of temperatures and anomalies along the equator (Fig. 9) show that negative temperature anomalies along the thermocline were strengthened during March and the depth of the oceanic thermocline was shallower than normal east of 170°W, especially east of 150°W.

Fig. A shows the depth-longitude sections of temperatures and anomalies along the equator in the Pacific Ocean from the end of December in 1994 to the middle of March in 1995 every 20 days. These data are derived from the Ocean Data Assimilation System of the JMA. The positive subsurface temperature anomalies throughout the eastern half of the equatorial Pacific during December decreased and were replaced with entirely negative in March (Fig. A).

In the North Pacific, SSTs were above normal north of 40°N and southwest of Baja California. Positive anomalies southwest of Baja California increased especially near 130°W and 115°W, where the anomalies were more than +1.5°C. SSTs were about 1°C below normal along 30°N from 160°W to 150 °W. Negative anomalies prevailed from south of Japan to east of the Philippines (Fig. 6).

Seas adjacent to Japan

SSTs in the seas adjacent to Japan were above normal except south of Hokkaido and east of Kanto. Positive SST anomalies of greater than 1.5°C were found in the central part of the Japan Sea (Fig. 24).

The small-meander of Kuroshio appeared southeast of Kyusyu in January has shifted to off Shikoku at the beginning of March and to off Kii Channel at the middle and the end of March. It flowed straight along the south coast of Honshu from Kii Peninsula, then flowed eastward passing south of Miyake Island during March (Fig. 27).

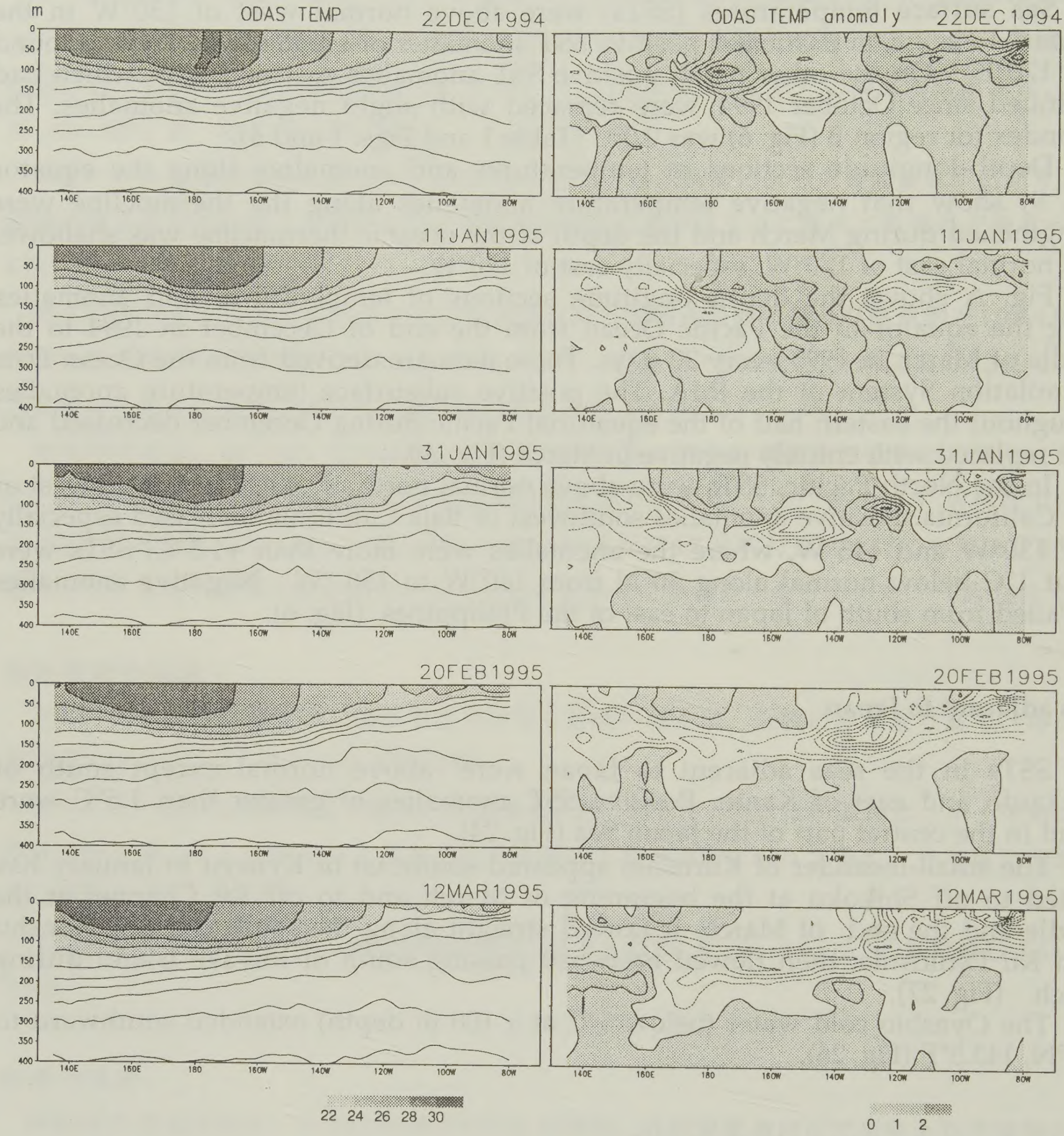
The Oyashio cold water (below 5°C at a 100 m depth) extended southward to 38.8°N, 143.5°E (Fig. 26).

Atmospheric conditions in the tropics

Enhanced convection area were stronger than normal in the equatorial western Pacific. On the other hand convective activities have decreased around the date line. The low-level 850 hPa equatorial easterlies were stronger than normal in the entire equatorial Pacific. The SOI was +0.4 during March and returned to the positive value after an interval of thirteen months. (Table 1, Figs. 3-5 and 12).

[Prepared by the Long-range Forecast Division, JMA]

Depth-Longitude Sections of Equatorial Temperature & Anomalies



図A　太平洋の赤道に沿う表層水温断面図（左）と偏差図（右）（1994年12月下旬～1995年3月中旬）

Fig. A Depth-longitude sections of temperature (left) and anomalies (right) from the end of December 1994 to the middle of March 1995. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 2℃ (left) and 0.5℃ (right). Anomalies are computed from 1987-1994 base period means.

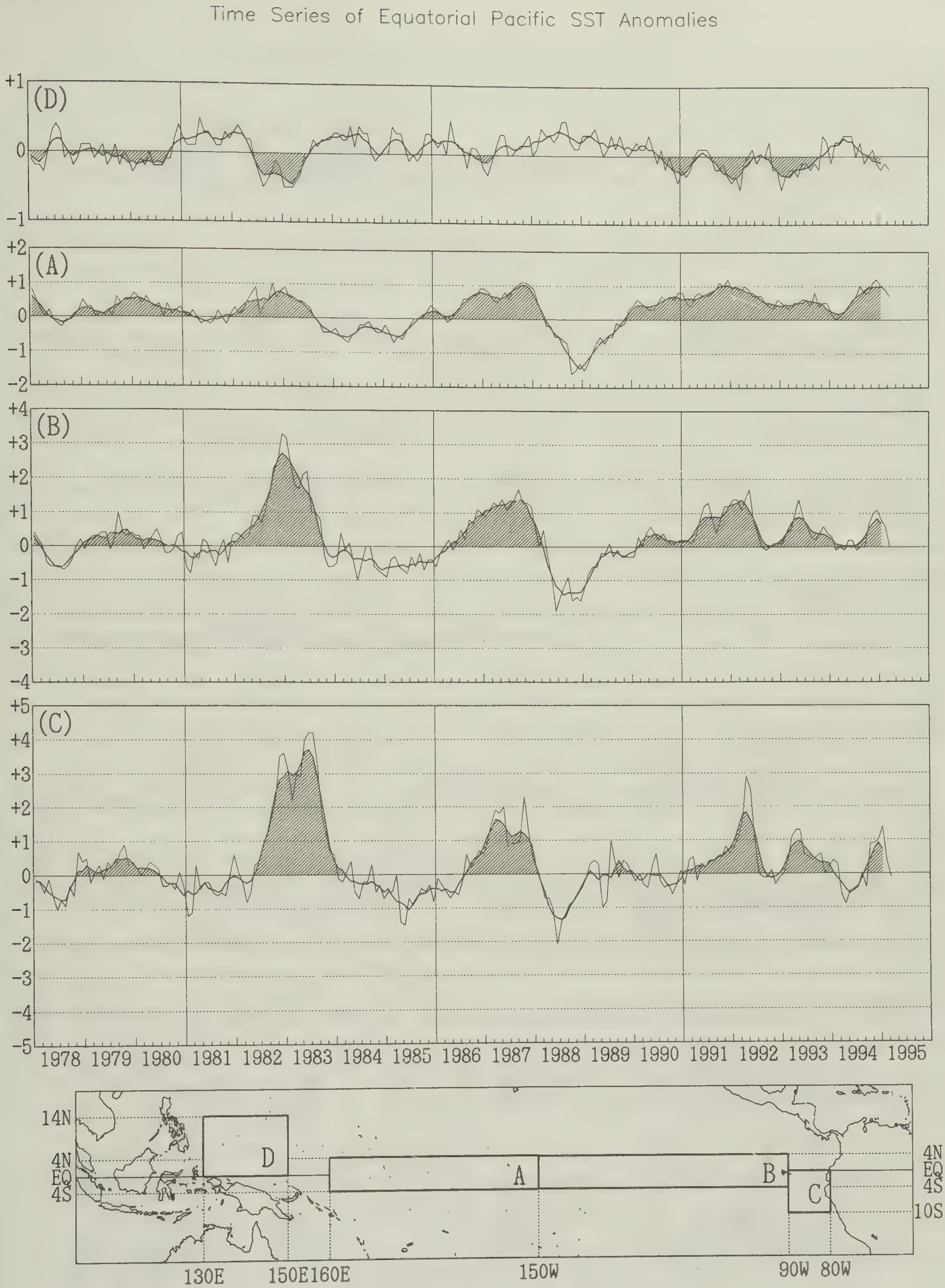
DATE	SEA SURFACE TEMPERATURE AND ANOMALY (°C)								SEA LEVEL ANOMALY (cm)					
	Region D 14N-Eq. 130E-150E		Region A 4N-4S 160E-150W		Region B 4N-4S 150W-90W		Region C 4N-4S 90W-80W		Yap 10N,138E	Rabaul 4S,152E	Majuro 7N,171E	Tarawa 1N,173E	Christ-mas 2N,157W	Santa Cruz 1S,90W
APR 94	29.1	+0.3	28.4	+0.2	27.0	-0.1	24.2	-0.9	2	5	5	6	0	-8
MAY 94	29.4	+0.3	28.9	+0.4	26.8	+0.2	23.4	-0.5	2	3	1	7	1	-3
JUN 94	29.6	+0.3	29.0	+0.5	26.3	+0.2	22.2	-0.5	7	1	-2	6	1	1
JUL 94	29.2	0.0	29.2	+0.7	25.1	-0.1	21.2	-0.4	9	2	-1	9	4	0
AUG 94	29.3	+0.2	29.4	+1.0	24.6	0.0	20.6	0.0	1	0	0	-	7	-1
SEP 94	29.1	-0.1	29.1	+0.8	24.6	0.0	19.9	-0.4	-5	-	0	14	4	1
OCT 94	29.3	0.0	29.2	+0.8	25.3	+0.7	21.6	+0.9	0	-	-	10	9	4
NOV 94	29.3	+0.1	29.5	+1.1	25.6	+1.0	22.4	+0.9	5	2	-5	-	7	10
DEC 94	28.8	-0.1	29.4	+1.2	26.0	+1.1	23.6	+1.0	-1	2	-5	-	6	9
JAN 95	28.3	-0.2	29.0	+1.0	26.2	+0.8	25.7	+1.4	-3	-2	2	7	8	7
FEB 95	28.2	-0.1	28.9	+0.9	26.8	+0.6	26.1	+0.4	-7	-2	5	5	2	5
MAR 95	28.2	-0.2	28.8	+0.7	26.9	0.0	25.8	-0.1						

第１表（a）エルニーニョ監視指数

Table 1 (a) El Niño monitoring indices. Data sources are the El Niño Monitoring Center of JMA for the sea surface temperature and anomaly and SOC for ISLP-Pac, Department of Oceanography, University of Hawaii for the sea level anomaly.

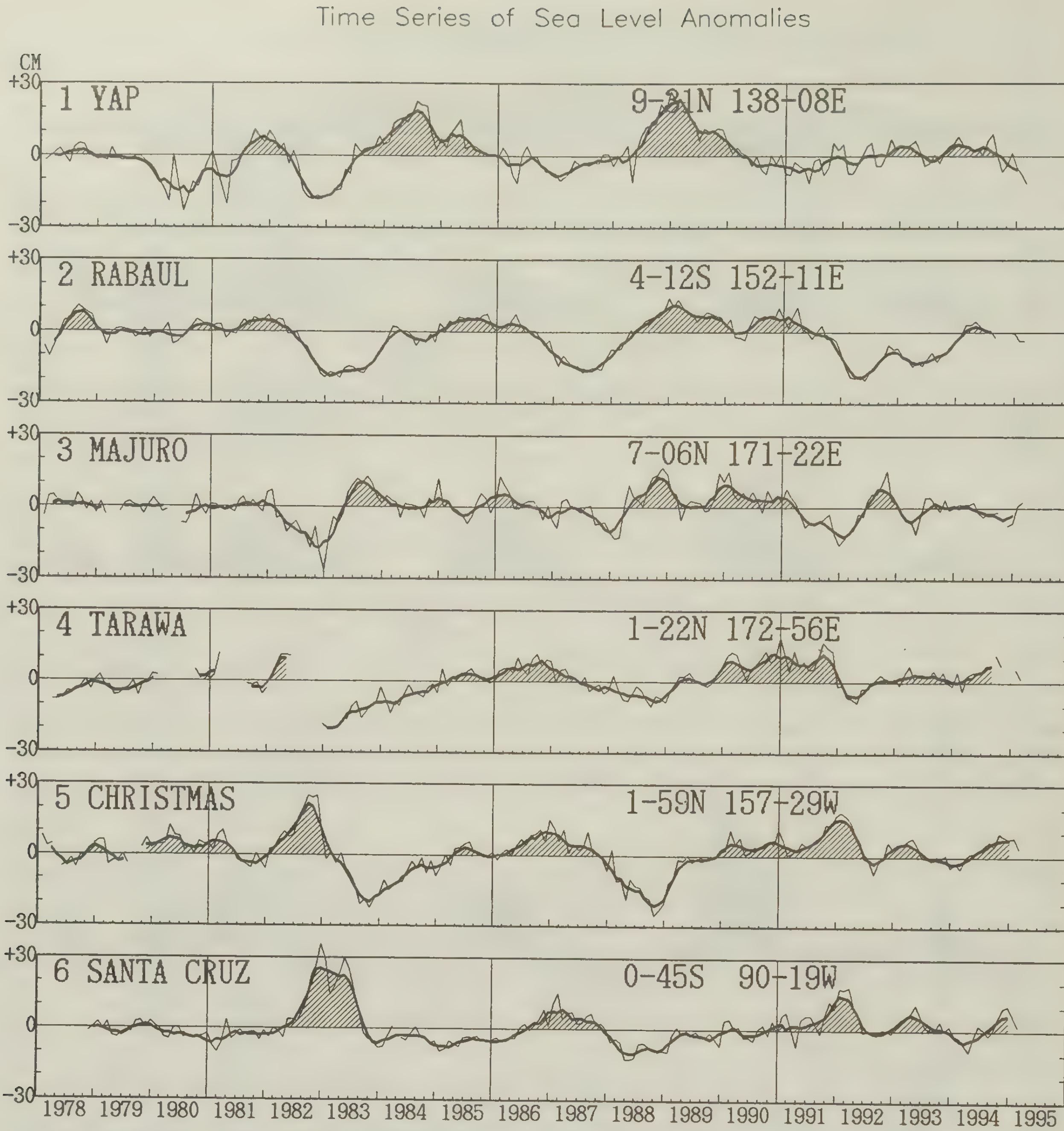
DATE	SOI	SEA LEVEL PRESSURE ANOMALIES		HIGH CLOUD AMOUNT INDEX			EQUATORIAL ZONAL WIND INDEX				
		TAHITI 17.5S,150W	DARWIN 12.5S,131E	HCLD-PH 20N-10N 110E-140E	HCLD-MC 5N-5S 110E-135E	HCLD-DL 5N-5S 170E-170W	U200-IN 5N-5S 80E-100E	U200-CP 5N-5S 180 -125W	U850-WP 5N-5S 160E-175W	U850-CP 5N-5S 170W-135W	U850-EP 5N-5S 130W-100W
APR 94	-2.1	-1.5	1.2	0.7	0.4	0.4	-0.2	-0.3	-0.5	-0.4	-0.5
MAY 94	-1.4	-0.8	1.0	0.2	0.4	-0.3	-0.3	-0.5	-0.3	0.2	0.0
JUN 94	-1.0	-0.9	0.3	-0.3	-1.0	-0.3	-0.5	-0.7	-0.4	-0.6	-0.5
JUL 94	-1.6	-1.5	1.0	3.5	-1.1	-0.5	-1.2	0.4	0.1	-0.1	-1.3
AUG 94	-1.8	-0.7	2.0	-0.9	-1.1	0.4	-0.6	0.0	0.6	0.0	-1.8
SEP 94	-1.6	-1.5	1.5	0.2	-1.1	1.4	-0.9	0.1	0.4	0.3	0.9
OCT 94	-1.5	-1.1	1.2	-0.6	-1.9	0.2	1.1	-0.9	0.9	1.2	0.8
NOV 94	-0.6	-0.2	0.9	-3.4	-1.3	1.9	0.5	-0.3	1.2	1.2	1.6
DEC 94	-1.2	-0.3	1.8	-0.7	-0.2	2.6	0.5	0.1	1.2	-0.2	0.1
JAN 95	-0.4	-0.3	0.6	-1.1	-0.4	1.2	-0.4	-0.2	-0.3	-0.6	0.3
FEB 95	-0.2	0.6	1.1	-0.7	-0.3	0.3	-0.8	-0.5	-0.4	0.1	-0.1
MAR 95	0.4	0.3	-0.5	-0.7	0.3	-0.3	-0.2	-0.1	-0.7	-0.4	-0.3

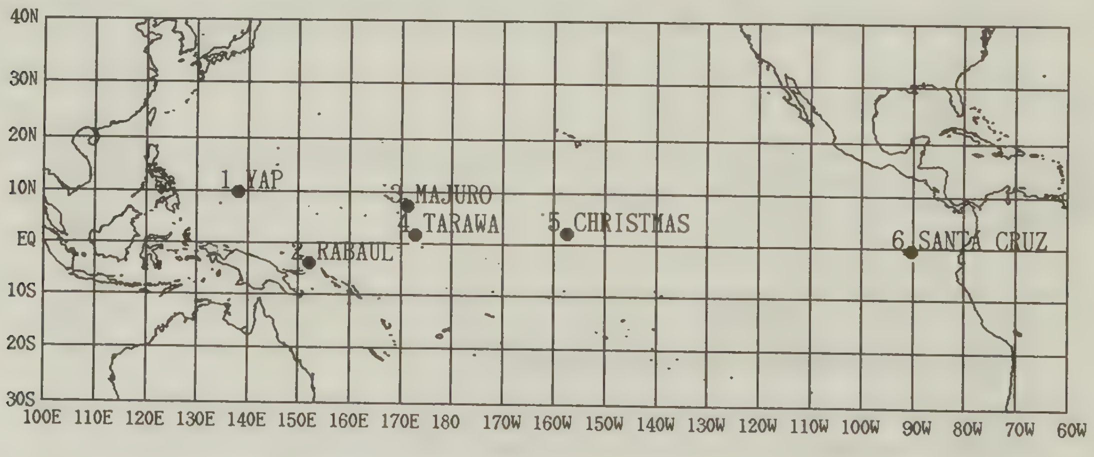
第１表（ｂ）エルニーニョ監視指数（続き）
Table 1 (b) El Niño monitoring indices (continued).
Data sources are the Long-range Forecast Division of JMA for the atmospheric conditions.



第1図　太平洋赤道域の海面水温偏差時系列図

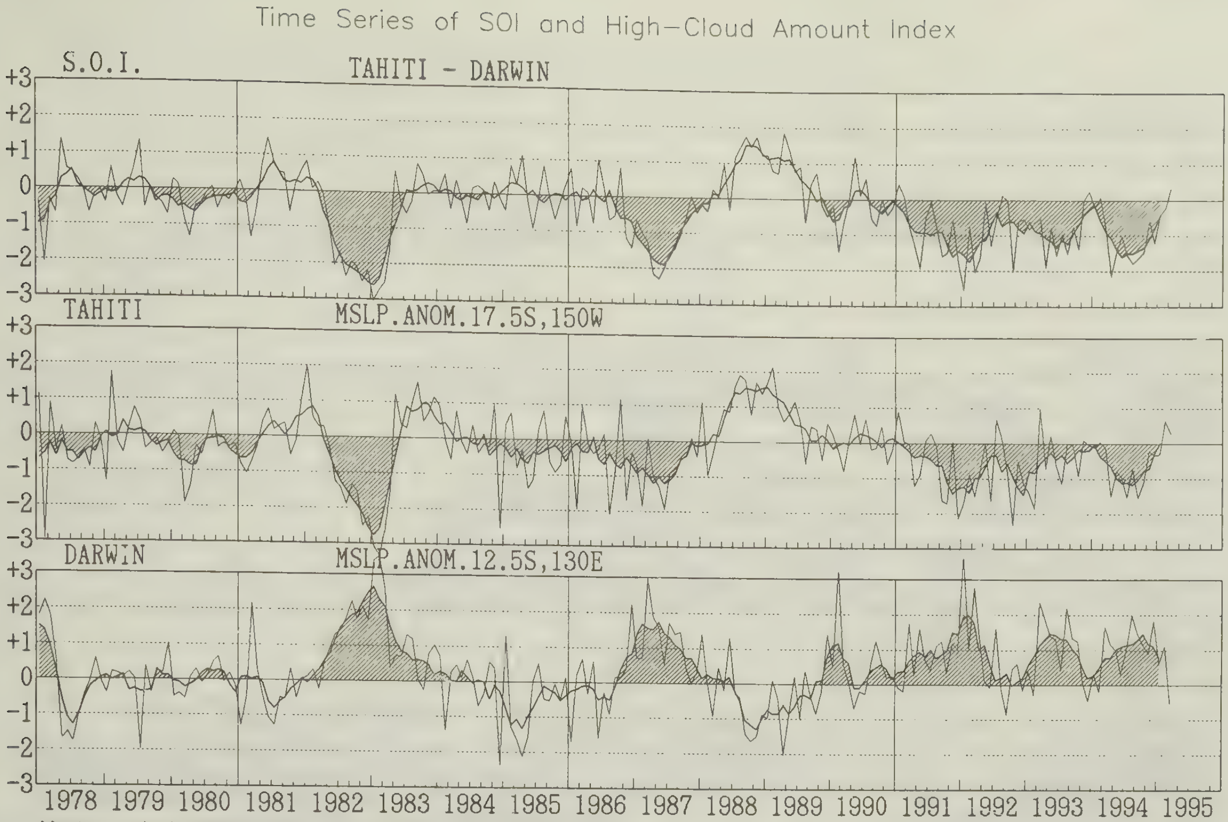
Fig.1 Time series of monthly mean SST anomalies (°C) in the equatorial Pacific Ocean for the areas indicated at the bottom. Thin lines show the monthly means and thick lines their 5-month running means. Positive anomalies (A,B,C) and negative anomalies (D) are shaded. Anomalies are computed from the JMA climatology (1961-1990).





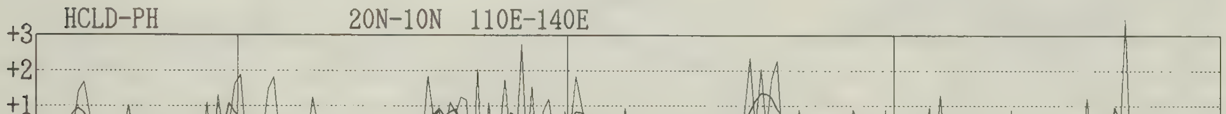
第2図　太平洋月平均海面水位偏差時系列図

Fig.2 Time series of sea level anomalies computed from 1976−1990 monthly mean values obtained from the stations indicated at the bottom. Thin lines show the monthly mean and thick lines their 5−month running means. Positive anomalies are shaded.



第3図　南方振動指数及び海面気圧偏差時系列図

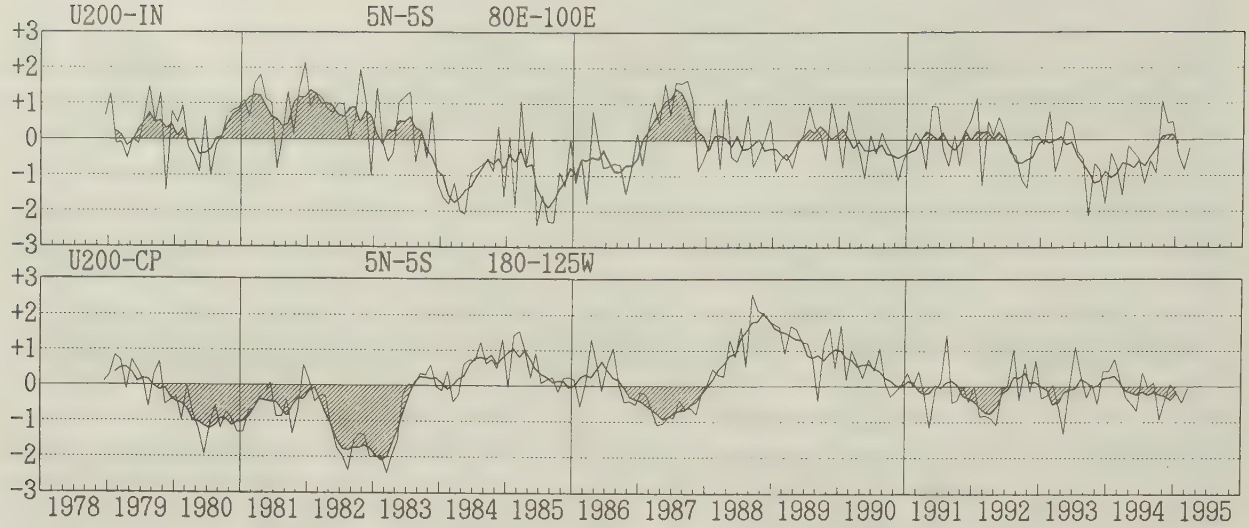
Fig.3 Time series of the Southern Oscillation Index (top) and monthly mean sea level pressure standardized anomalies at Tahiti (middle) and Darwin (bottom). Thin lines show the monthly mean and thick lines their 5-month running means. Negative anomalies (top, middle) and posotive anomalies (bottom) are shaded. Normals and standard deviations are computed from 1961-1990 base periods. Data sources are the Long-range Forecast Division of JMA.



第4図　月平均上層雲量指数時系列図

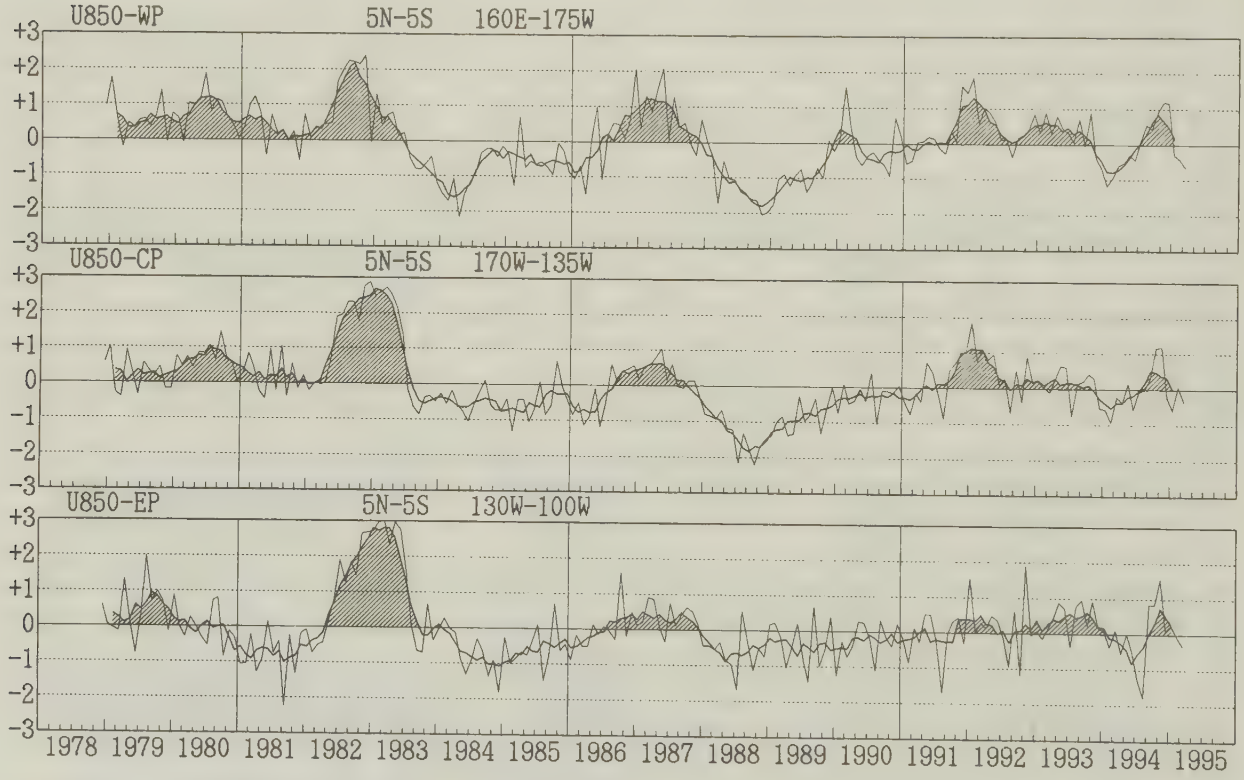
Fig.4 Time series of high-cloud amount index averaged over the area 20° N-10° N, 110° E-140° E (top), 5° N-5° S, 110° E-135° E (middle), and 5° N-5° S, 170° E-170° W (bottom). Thin lines show the monthly mean and thick lines their 5-month running means Negative anomalies (top, middle) and positive anomalies (bottom) are shaded. Normals and standard deviations are computed from 1979-1990 base periods. Data sources are the Long-range Forecast Division of JMA.

Time Series of Zonal Wind Index



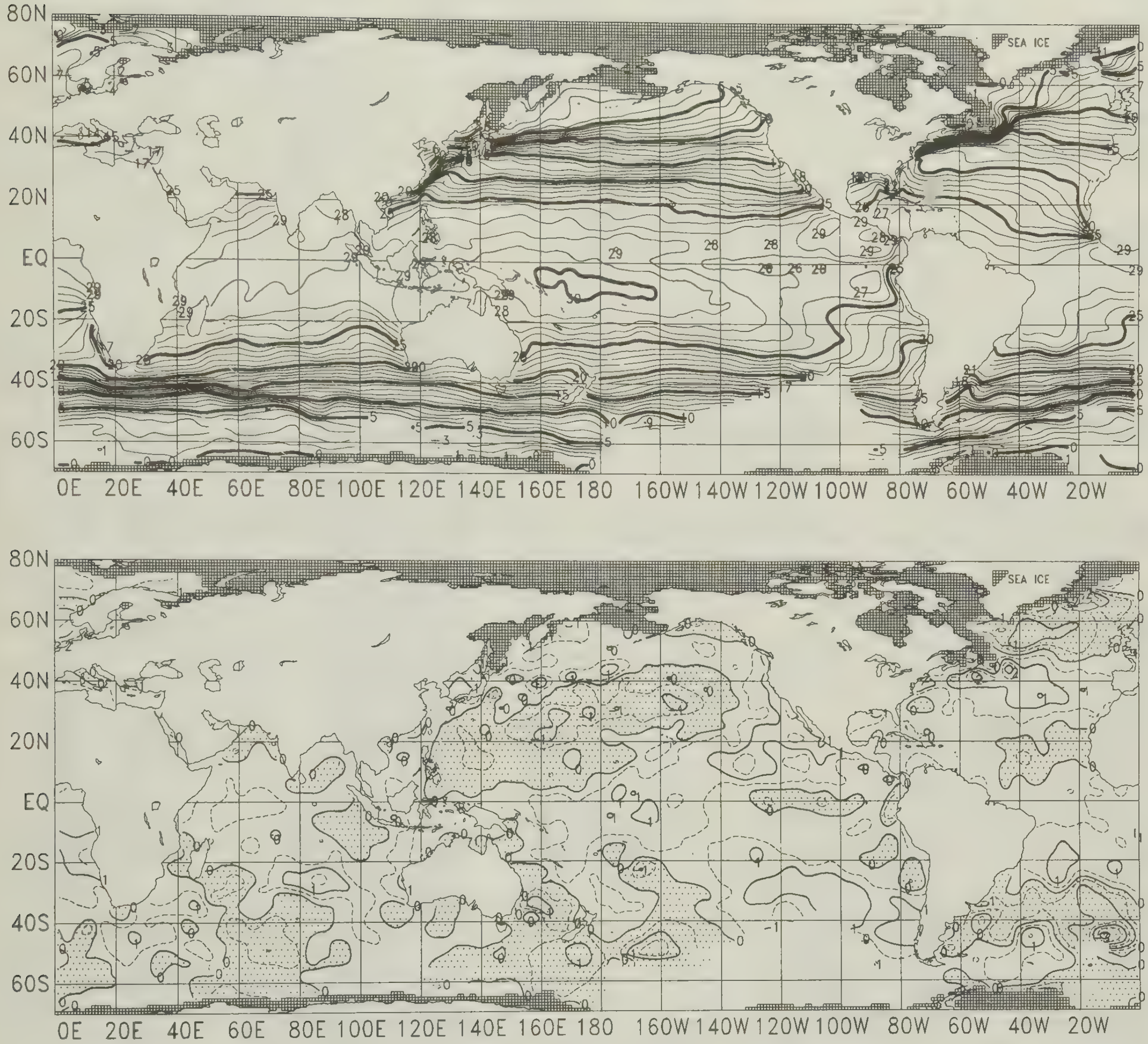
第5図-1　赤道域東西風指数(200ｈＰａ)時系列図

Fig.5−1 Time series of 200hPa zonal wind index averaged over the areas of 5° N−5° S, 80° E−100° E (top), and 5° N−5° S, 180° −125° W (bottom).
Thin lines show the monthly mean and thick lines their 5−month running means.
Positive anomalies (top) and negative anomalies (bottom) are shaded.
Normals and standard deviations are computed from 1979−1990 base periods.
Data sources are the Long−range Forecast Division of JMA.



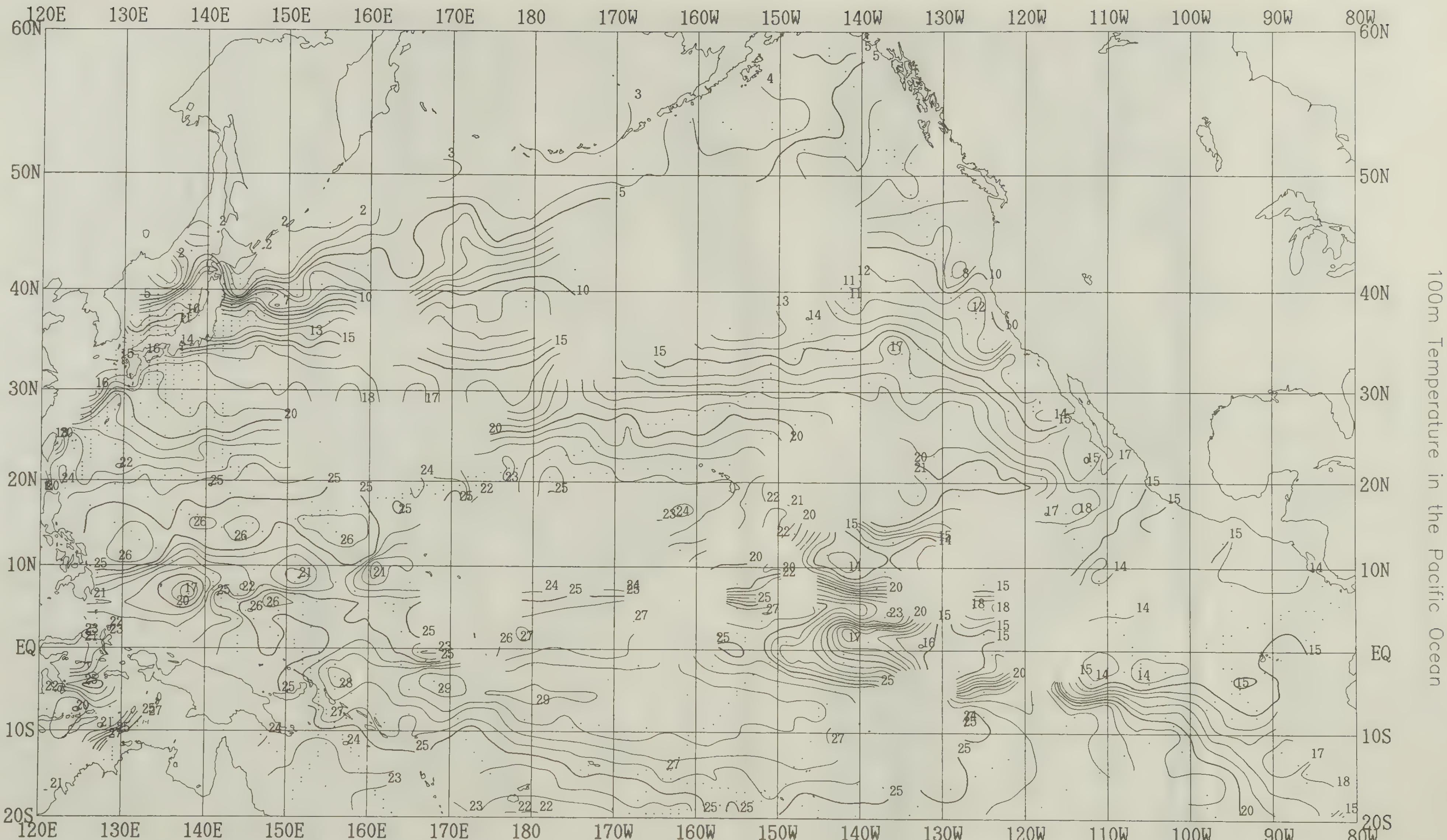
第5図-2　赤道域東西風指数(850ｈＰａ)時系列図

Fig.5−2 Time series of 850hPa zonal wind index averaged over the areas of 5° N−5° S, 160° E−175° W (top), 5° N−5° S, 170° W−135° W (middle), and 5° N−5° S, 130° W−100° W (bottom). Thin lines show the monthly mean and thick lines their 5−month running means. Positive anomalies are shaded.
Normals and standard deviations are computed from 1979−1990 base periods.
Data sources are the Long−range Forecast Division of JMA.



第6図　全球月平均海面水温図（上）及び偏差図（下）（1995年 3月）

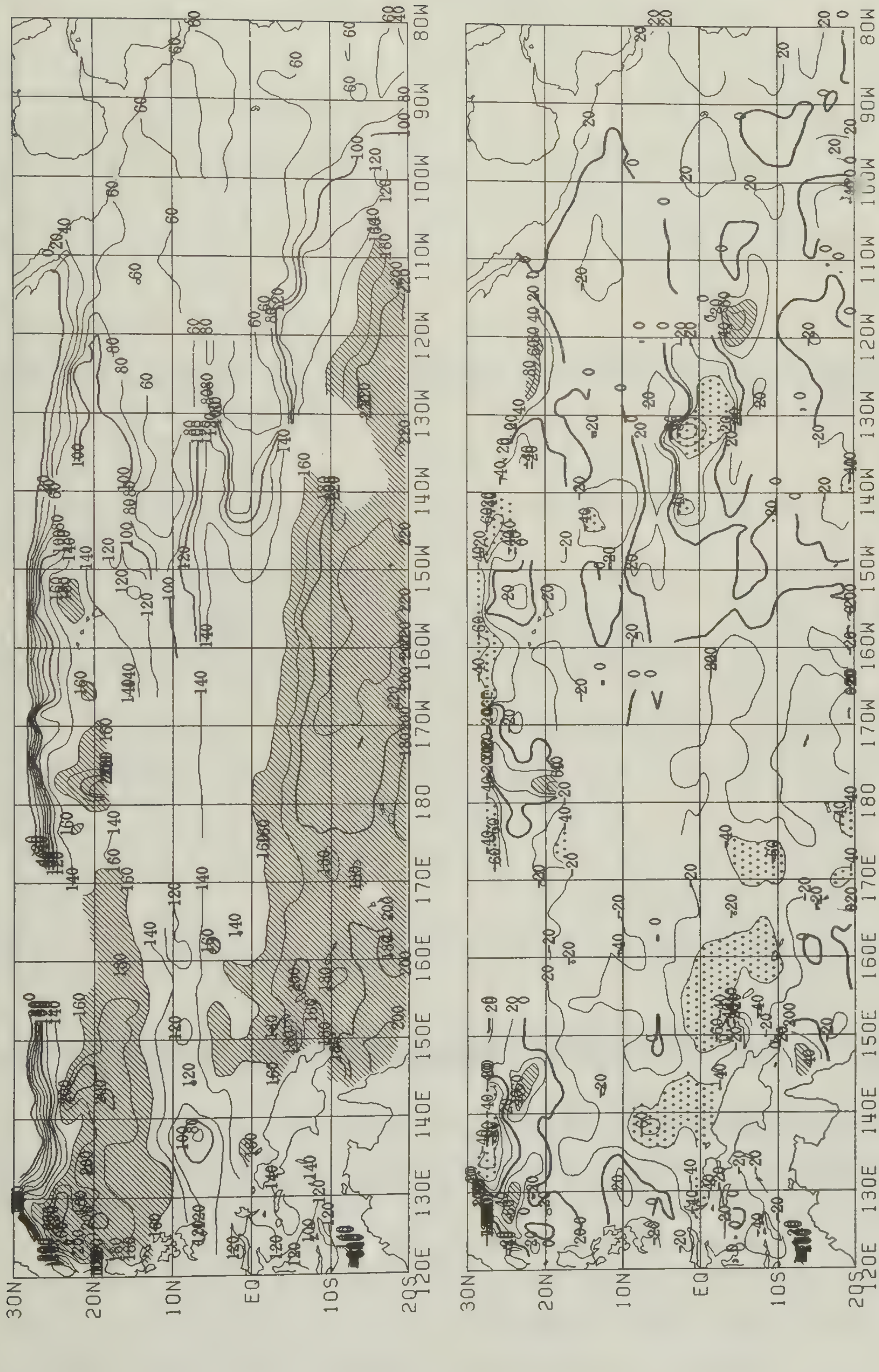
Fig.6 Monthly mean sea surface temperature over the global ocean (top) and anomalies (bottom) for MAR 1995. Anomalies are computed from the JMA climatology (1961–1990) (Marine Department of JMA, 1991, Climatic charts of sea surface temperatures of the western North Pacific and the global ocean). Contour interval is 1°C (top) and additional anomaly contours of ±0.5°C are shown as broken lines. Negative anomalies are spotted. Maximum coverage of sea ice is shaded. Data sources for sea ice are U.S. National Ice Center (polar regions) and JMA (the Sea of Okhotsk).



第7図　太平洋表層水温(深さ100m)図 (1995年 3月)

Fig.7　Subsurface (100m) temperatures in the Pacific Ocean for MAR 1995 .
Observation points are denoted by dots.

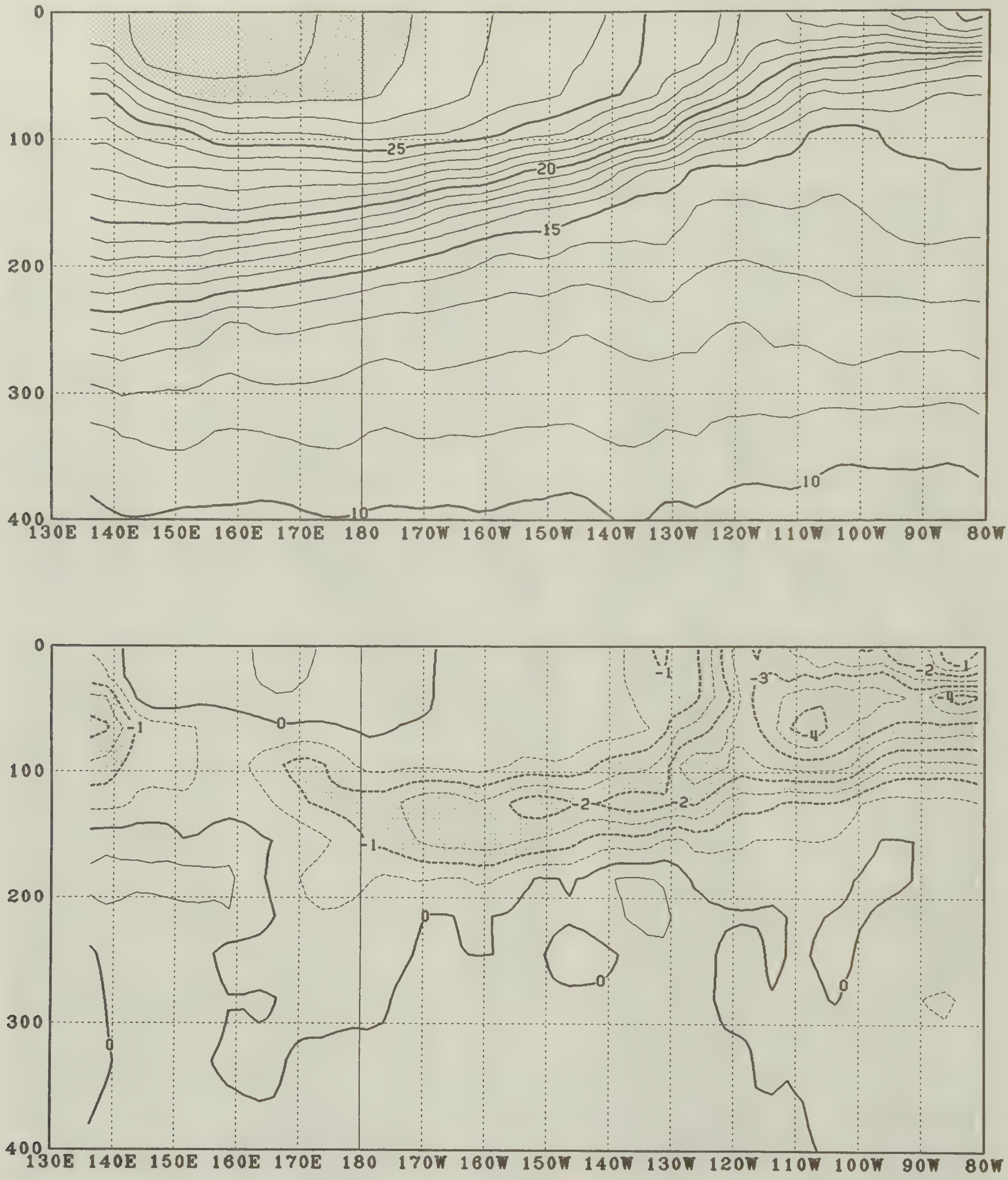
Depth of 20° C & Anomalies in the Pacific Ocean



第8図　太平洋表層水温（20℃深度）図（上）及び偏差図（下）（1995年 3月）

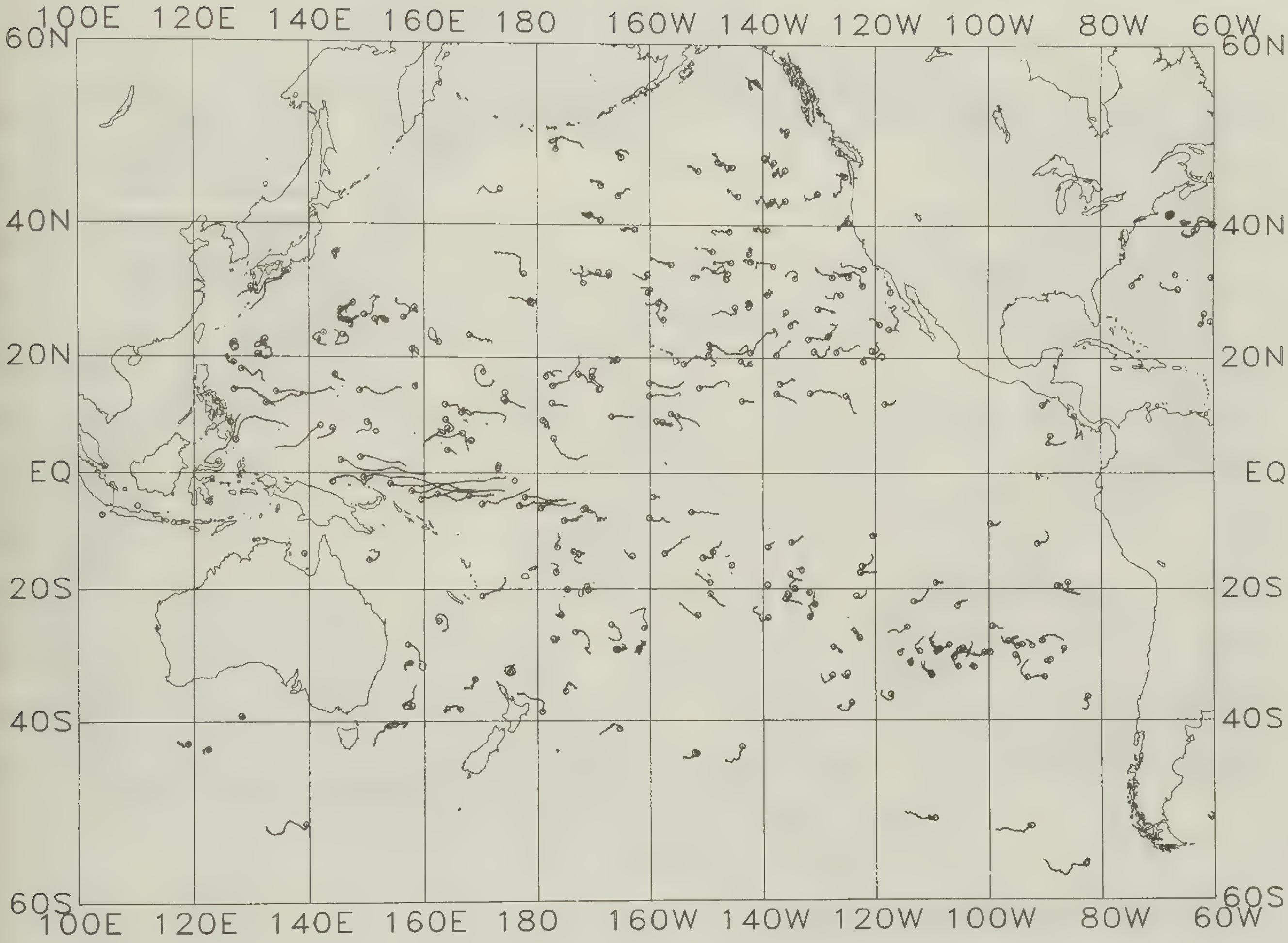
Fig.8 Depth of the 20° C isotherm in the Pacific Ocean (top) and anomalies (bottom) for MAR 1995. Anomalies are computed from the climatology (Levitus, 1982, Climatological Atlas of the World Ocean, NOAA). Contour interval is 20m. Values greater than 160m in top panel are shaded. In bottom panel values greater than +40m are shaded and values less than −40m are spotted.

Depth–Longitude Section of Equatorial Temperature & Anomalies



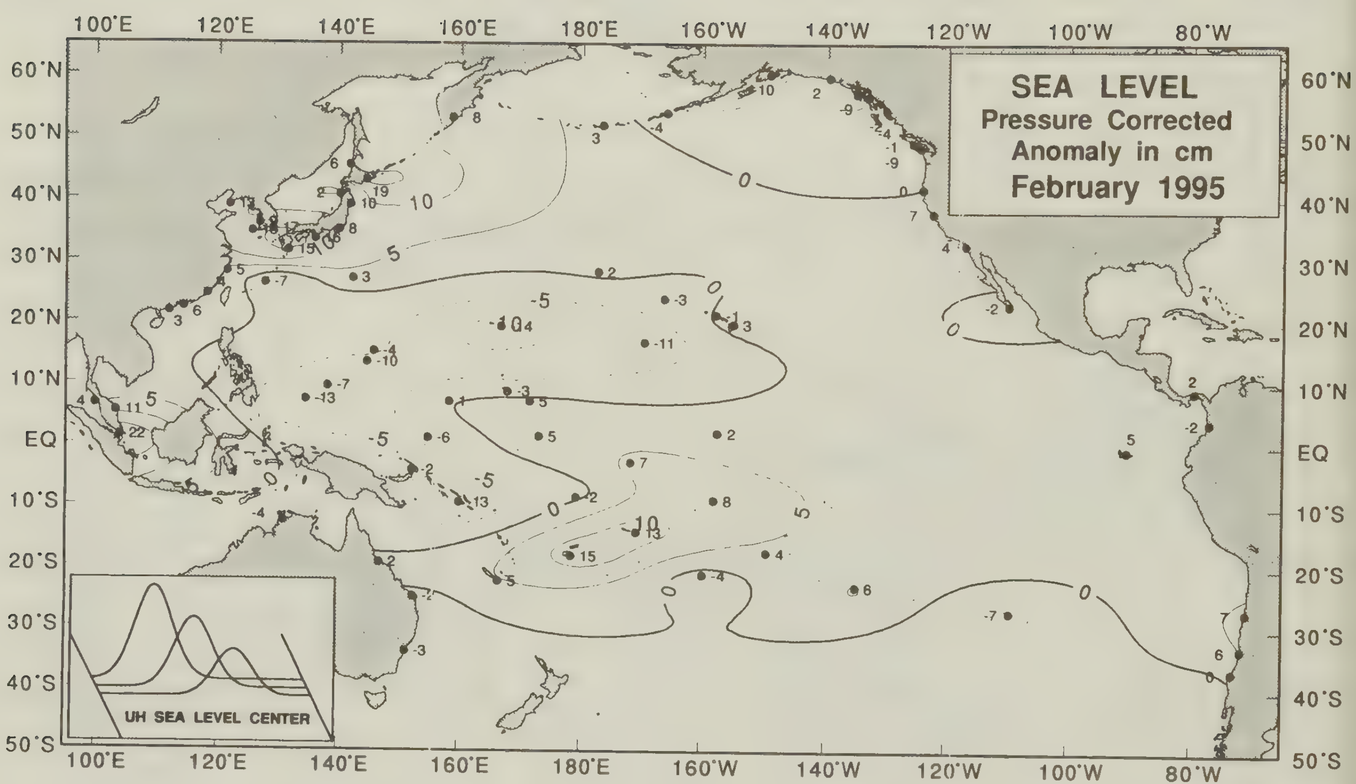
第9図　太平洋赤道に沿う表層水温断面図（上）及び偏差図（下）（1995年 3月）

Fig.9 Depth–longitude sections of temperature (top) and anomalies (bottom) along the equator in the Pacific Ocean for MAR 1995. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1° C (top) and 0.5° C (bottom). Values greater than 28° C in top panel are shaded. In bottom panel values greater than 1° C are shaded and values less than −1° C are spotted. Anomalies are computed from 1987–1994 base period means.



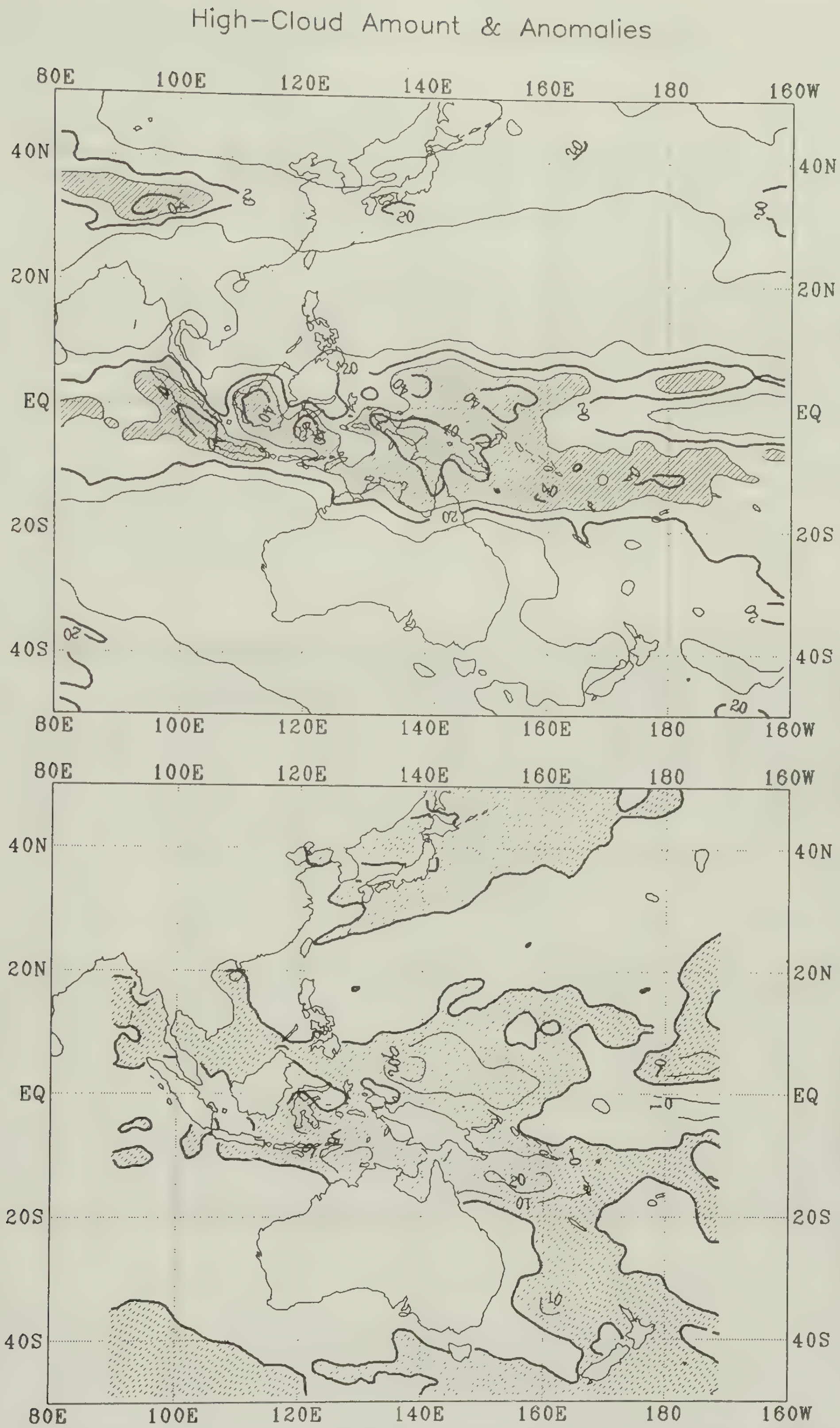
第10図　太平洋ブイ流跡図(1995年 3月)

Fig.10 Movements of drifting buoys in the Pacific Ocean during MAR 1995. Each track is for one buoy. Small circles represent last positions for the month.



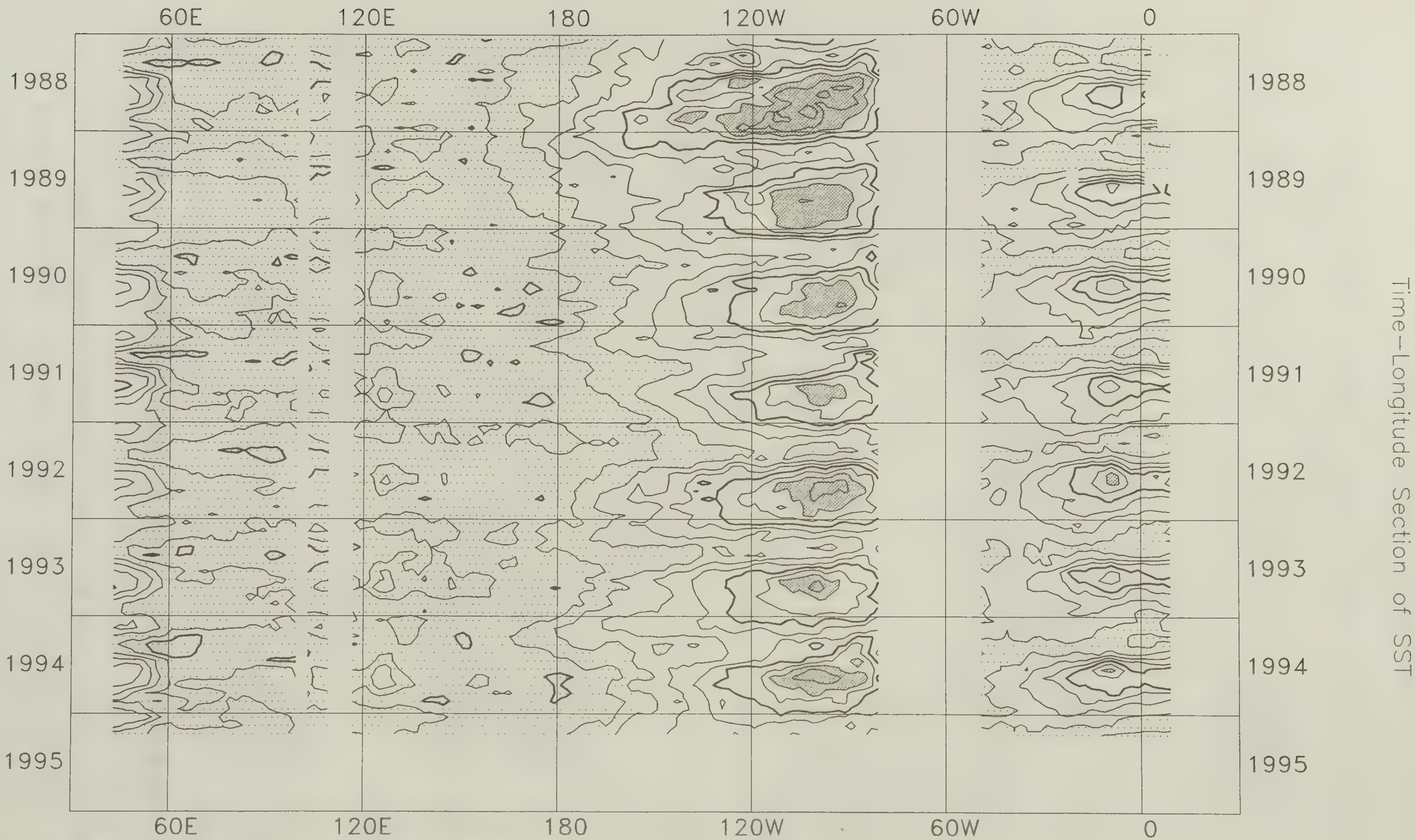
第11図　太平洋海面水位偏差図（ 1995年 2月 ）

Fig.11　Monthly sea level anomalies for FEB 1995 obtained from mean sea level (1975−1986) adjusted for atmospheric pressure.
This figure is prepared by the SOC of ISLP−PAC, Dept. of Oceanography, Univ. of Hawaii.



第12図　西太平洋月平均上層雲量分布図及び偏差図（1995年 3月）

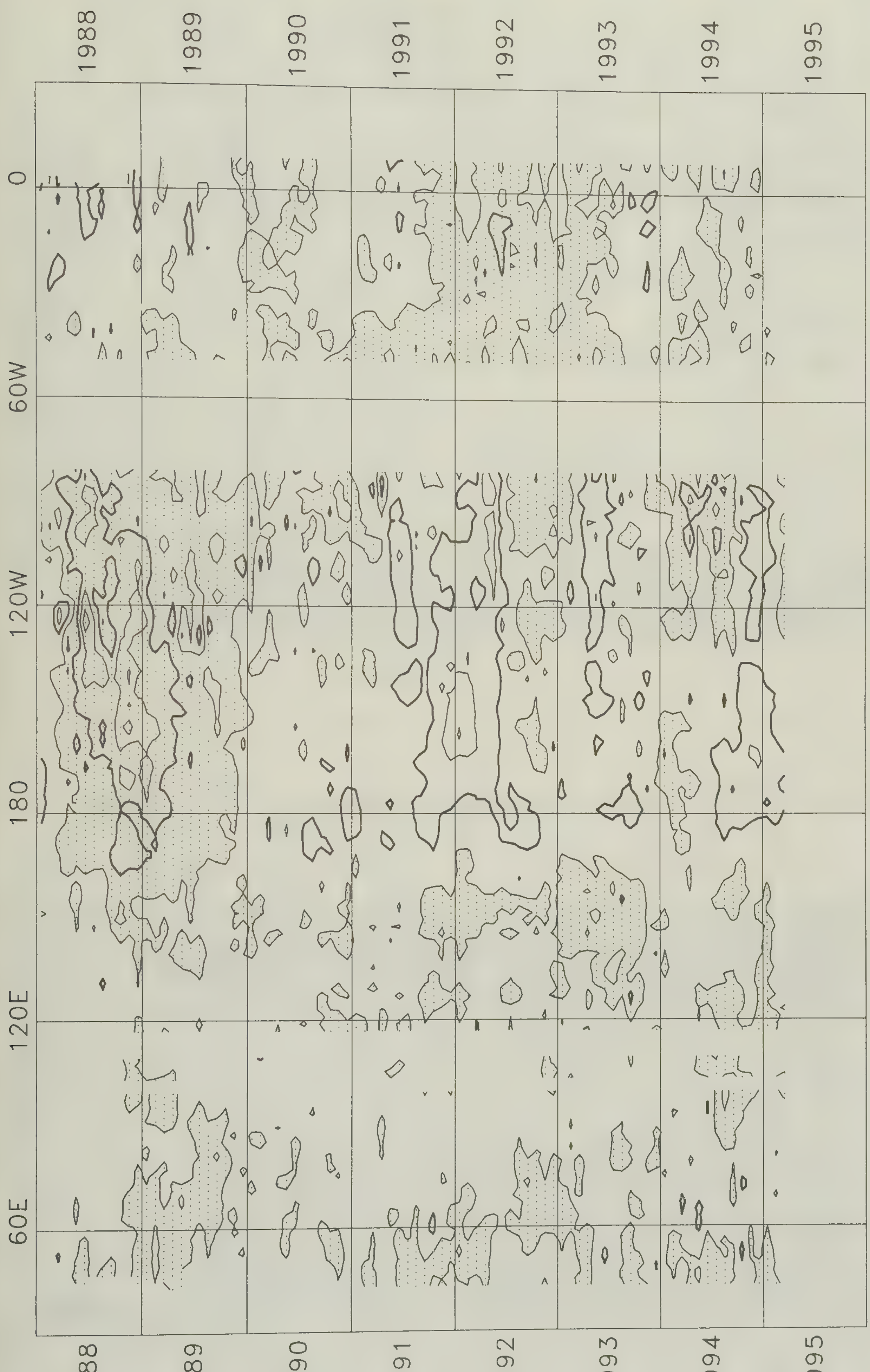
Fig.12 Monthly mean of the high-cloud amount (%, top) and its anomalies (%, bottom) in the western Pacific for MAR 1995. Contour interval is 10%. Areas above 30% are shaded (top) and positive anomalies are stippled (bottom). Anomalies are computed from 1978–1990 base period means. Figures are prepared by the Long-range Forecast Division of JMA.



第13図　赤道に沿う海面水温時系列図

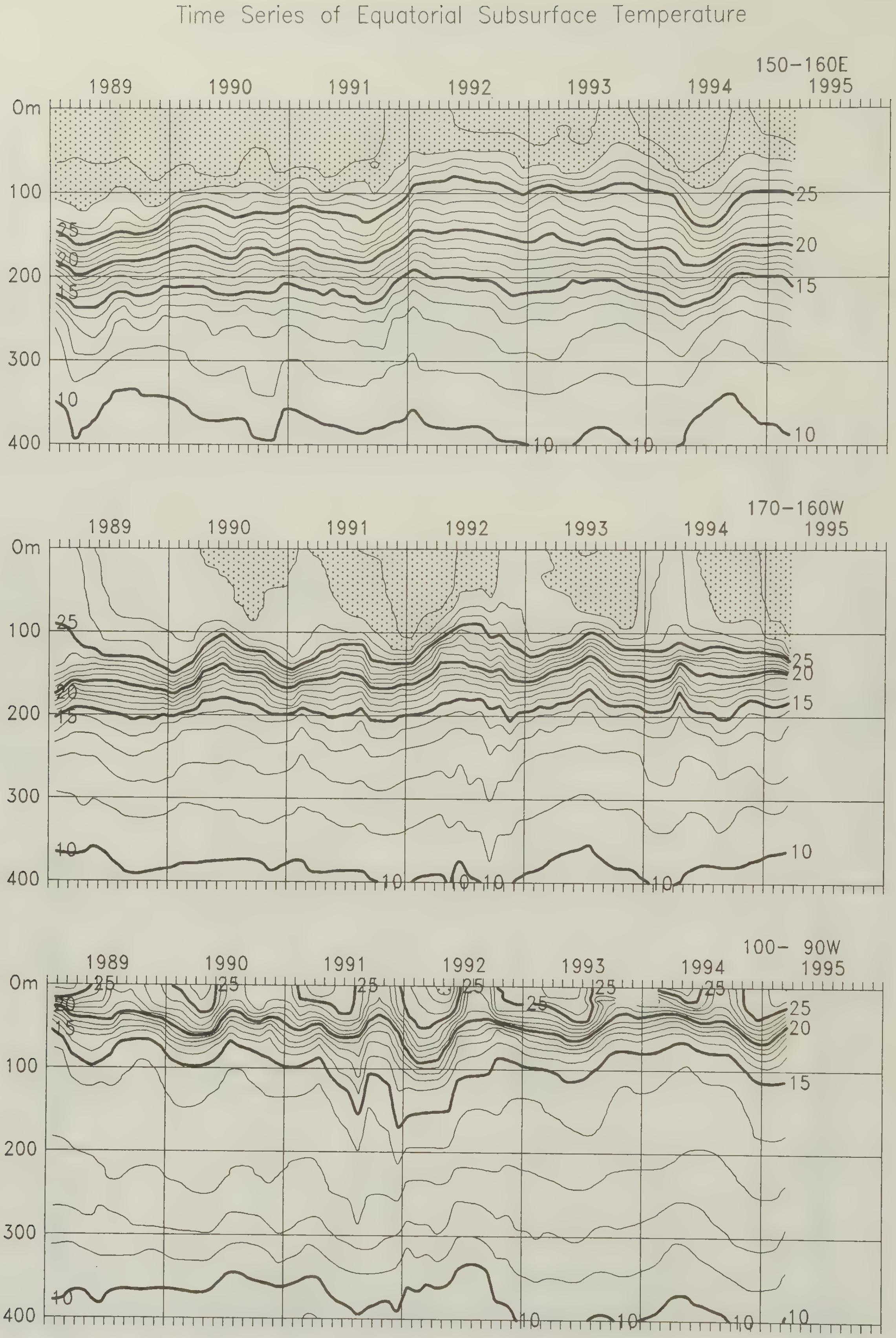
Fig.13 Time-longitude section of SSTs along the equator (2° N–2° S) in the global ocean. Contour interval is 1° C, with thick contour lines at 25 and 30° C. SST values greater than 28° C are spotted and values less than 23° C are shaded.

Time–Longitude Section of SST Anomalies



第14図　赤道に沿う海面水温偏差時系列図

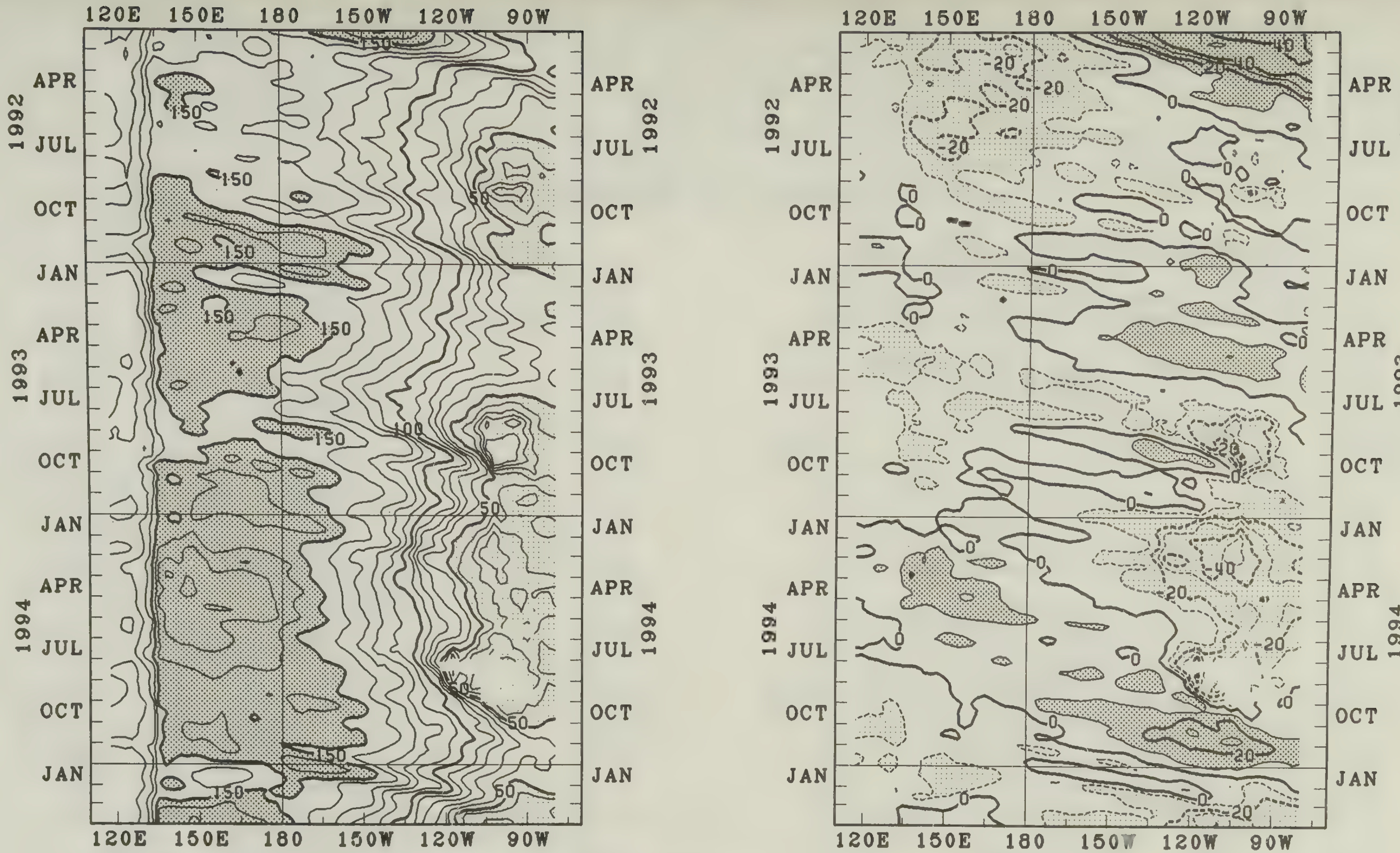
Fig.14 Time–longitude section of SST anomalies along the equator (2° N–2° S) computed from the JMA climatology (1961–1990). Contour interval is 1° C, with thick contour lines at +1° C and –1° C. Negative anomalies are spotted.



第15図　赤道太平洋表層水温時系列図（上：西部、中：中部、下：東部）

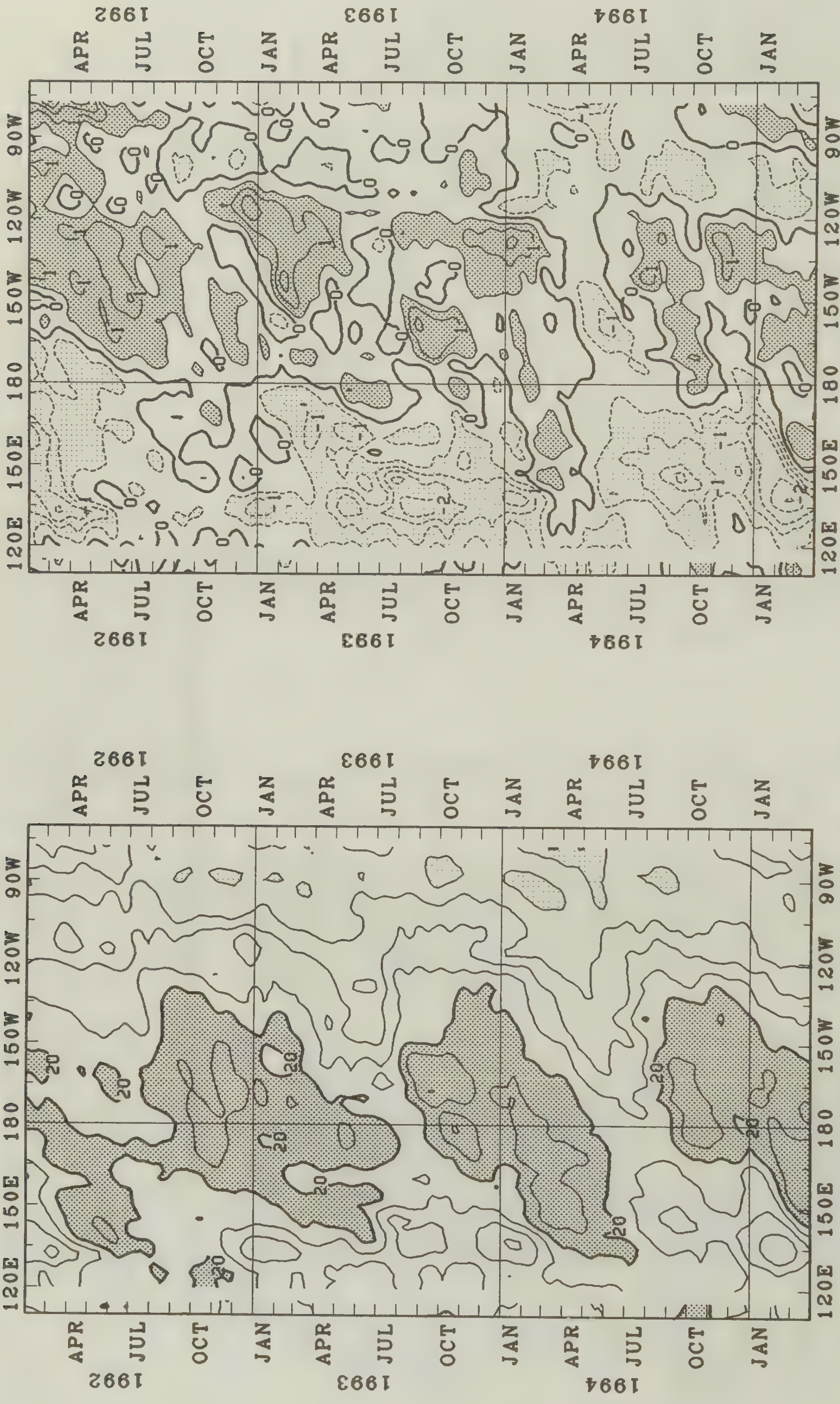
Fig.15 Time series of equatorial (2° N–2° S) subsurface temperature for the western Pacific (top, 150–160° E), the central Pacific (middle, 170–160° W) and the eastern Pacific (bottom, 100–90° W). Contour interval is 1° C. Values greater than 28° C are shaded.

Time—Longitude Section of Depth of 20° C & Anomalies



第16図　太平洋の赤道に沿う20℃深度時系列図（左）及び偏差時系列図（右）

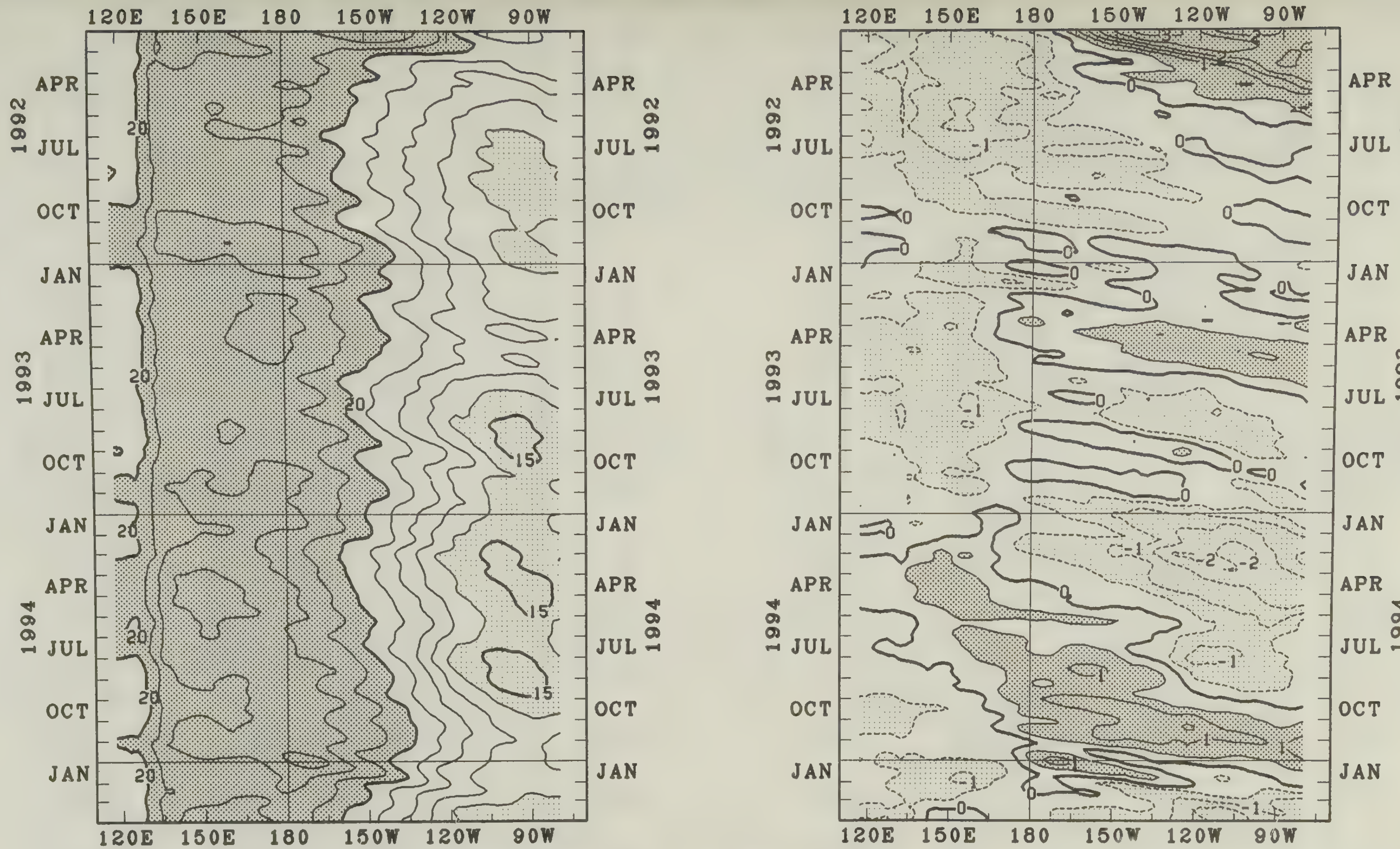
Fig.16 Time—longitude sections of depth of the 20° C isotherm along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 10m. Values in left panel greater than 150m are shaded and values less than 50m are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987—1994 base period means.



第17図　太平洋の北緯6度線に沿う海洋表層の貯熱量時系列図（左）及び偏差時系列図（右）

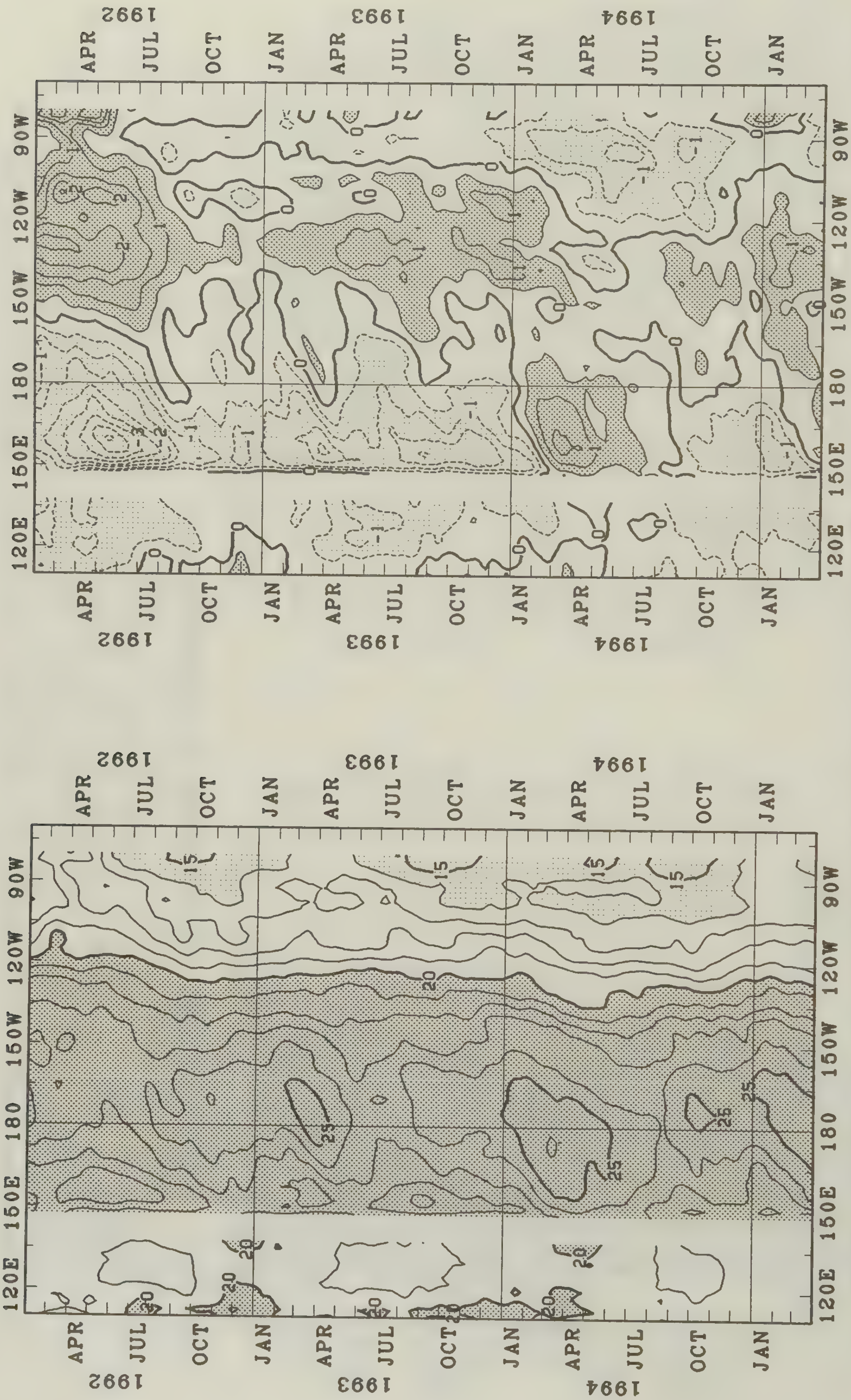
Fig.17 Time–longitude sections of ocean heat content in the upper 260m along 6° N (left) and anomalies (right) in the Pacific Ocean. Data are derived from an Ocean Data Assimilation System of JMA. Contour interval is 1° C (left) and 0.5° C (right). Values in the left panel greater than 20° C are shaded and values less than 16° C are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987–1994 base period means.

Time–Longitude Section of Ocean Heat Content & Anomalies (Eq.)



第18図　太平洋の赤道に沿う海洋表層の貯熱量時系列図（左）及び偏差時系列図（右）

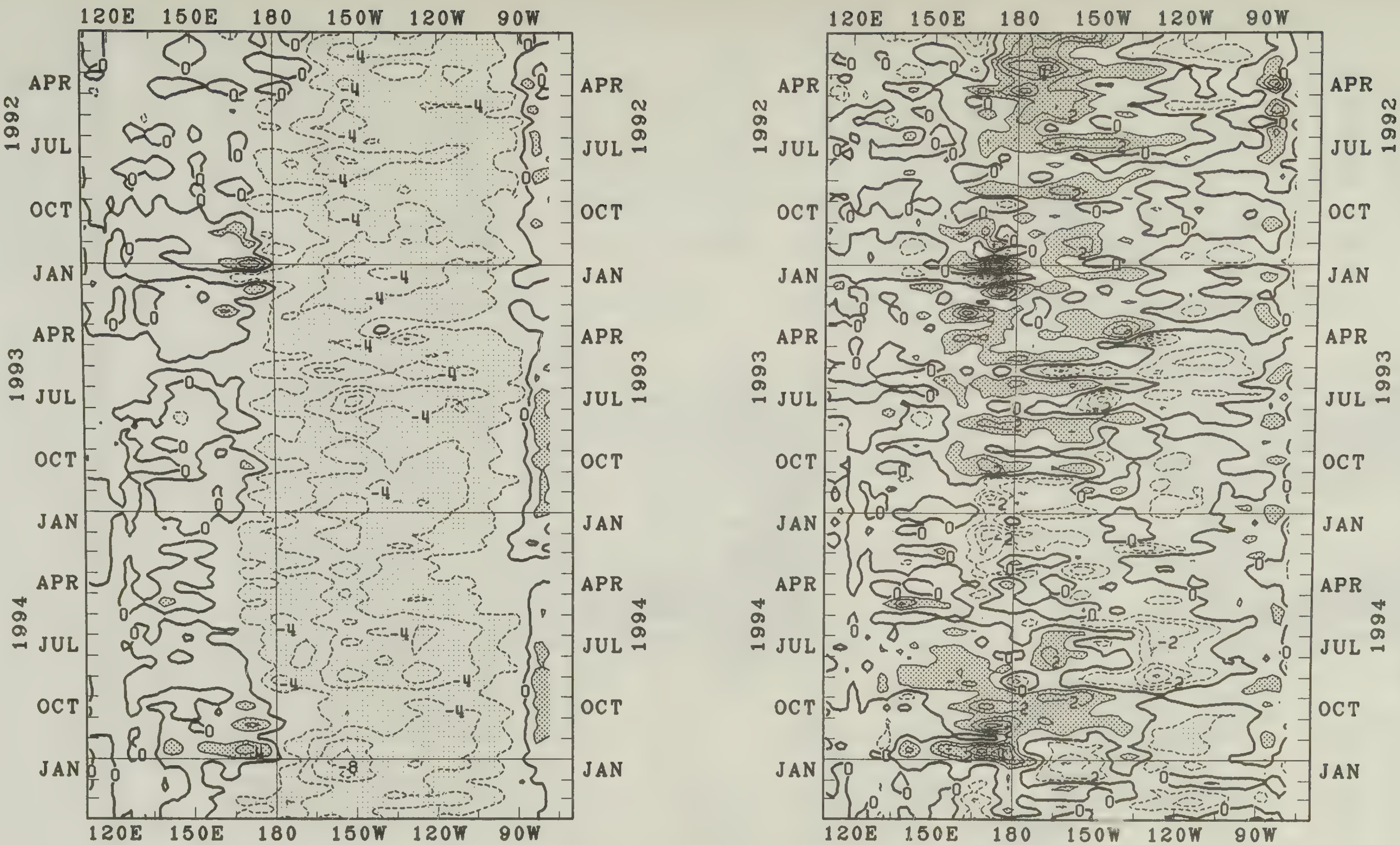
Fig.18 Time–longitude sections of ocean heat content in the upper 260m along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1° C (left) and 0.5° C (right). Values in the left panel greater than 20° C are shaded and values less than 16° C are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987–1994 base period means.



第19図 太平洋の南緯6度線に沿う海洋表層の貯熱量時系列図（左）及び偏差時系列図（右）

Fig.19 Time–longitude sections of ocean heat content in the upper 260m along 6° S (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1° C (left) and 0.5° C (right). Values in the left panel greater than 20° C are shaded and values less than 16° C are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987–1994 base period means.

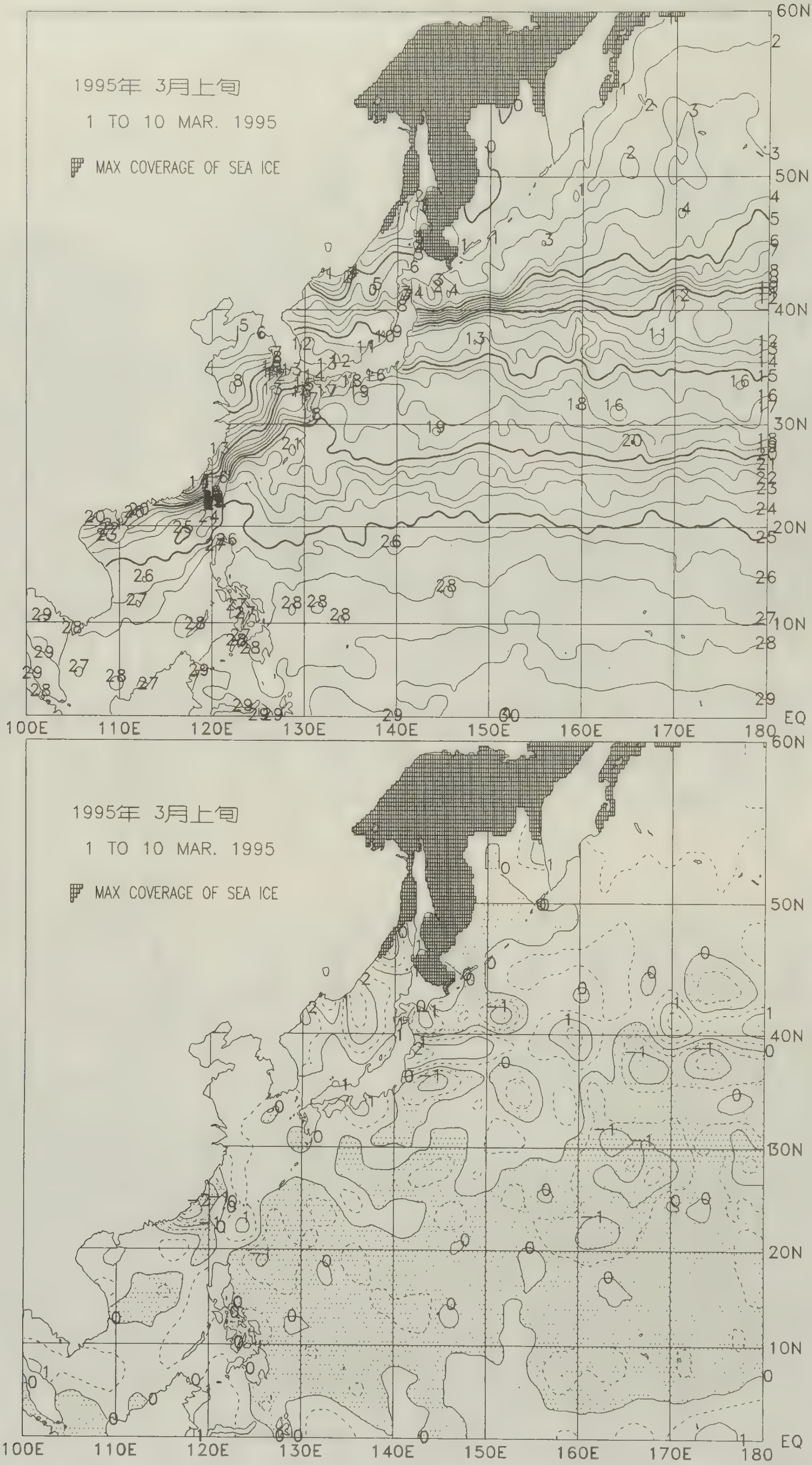
Time–Longitude Section of Surface Zonal Wind Stress & Anomalies



第20図　太平洋の赤道に沿う海面の風応力の東西成分時系列図（左）及び偏差時系列図（右）

Fig.20 Time–longitude sections of surface zonal wind stress along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Atmospheric Global Data Assimilation System of JMA. Contour interval is 0.02N/m2 (left) and 0.01N/m2 (right). Dashed contours indicate easterlies (left) and easterly anomalies (right). Anomalies are computed from 1987–1994 base period means.

Ten-day mean SST & Anomalies



旬平均沿岸水温(℃)
Coastal Water Temperature

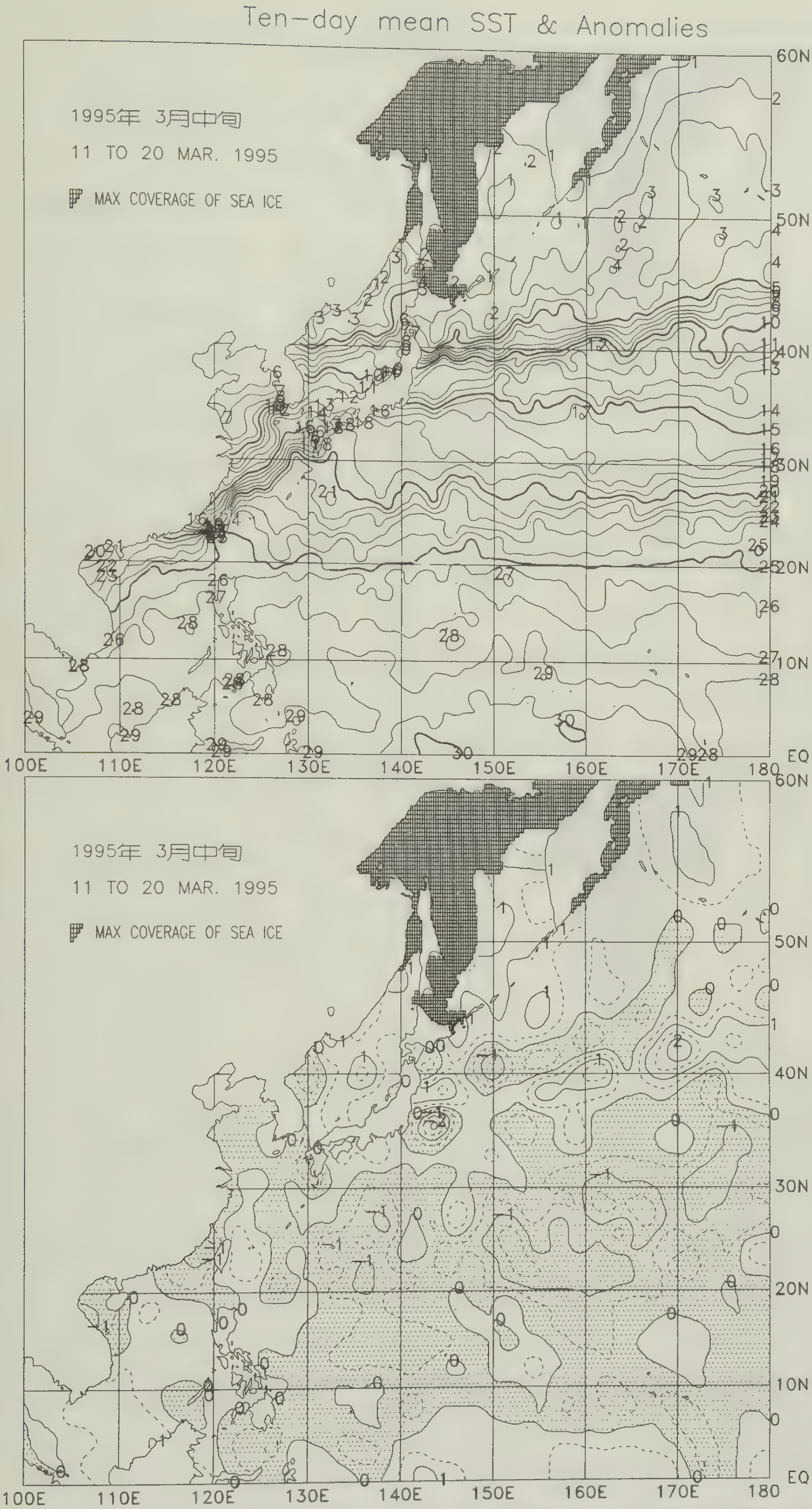
地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣島(47918)	21.5	+0.3
那覇(47936)	-	-
名瀬(47909)	-	-
足摺岬(47898)	15.6	-0.1
潮岬(47778)	17.2	-
御前崎(47655)	12.9	+1.8
八丈島(47678)	17.6	+1.1
館山(47672)	14.5	+1.2
小名浜(47598)	9.3	+0.5
宮古(47585)	7.0	+1.1
浦河(47426)	2.0	+1.1
紋別(47435)	-0.8	-
稚内(47401)	1.2	-
寿都(47421)	5.2	-
江差(47428)	5.7	-
飛島(47587)	8.7	+0.5
輪島(47600)	7.8	-0.1
西郷(47740)	11.6	-
浜田(47755)	12.1	-
厳原(47800)	14.3	-
牛深(47838)	15.5	-

海洋気象ブイロボット
旬平均海面水温(℃)
Ocean Data Buoy SST

日本海	37.9N,134.5E	10.4
四国沖	29.0N,135.0E	18.6
東シナ海	28.2N,126.3E	-

第21図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(1995年 3月上旬)

Fig.21 Ten-day mean SSTs in the western North Pacific (top) and anomalies (bottom) for the 1st ten-day period in MAR 1995. Anomalies are computed from the JMA climatology (1961-90). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown as broken lines. Negative anomalies are spotted.



旬平均沿岸水温(℃)
Coastal Water Temperature

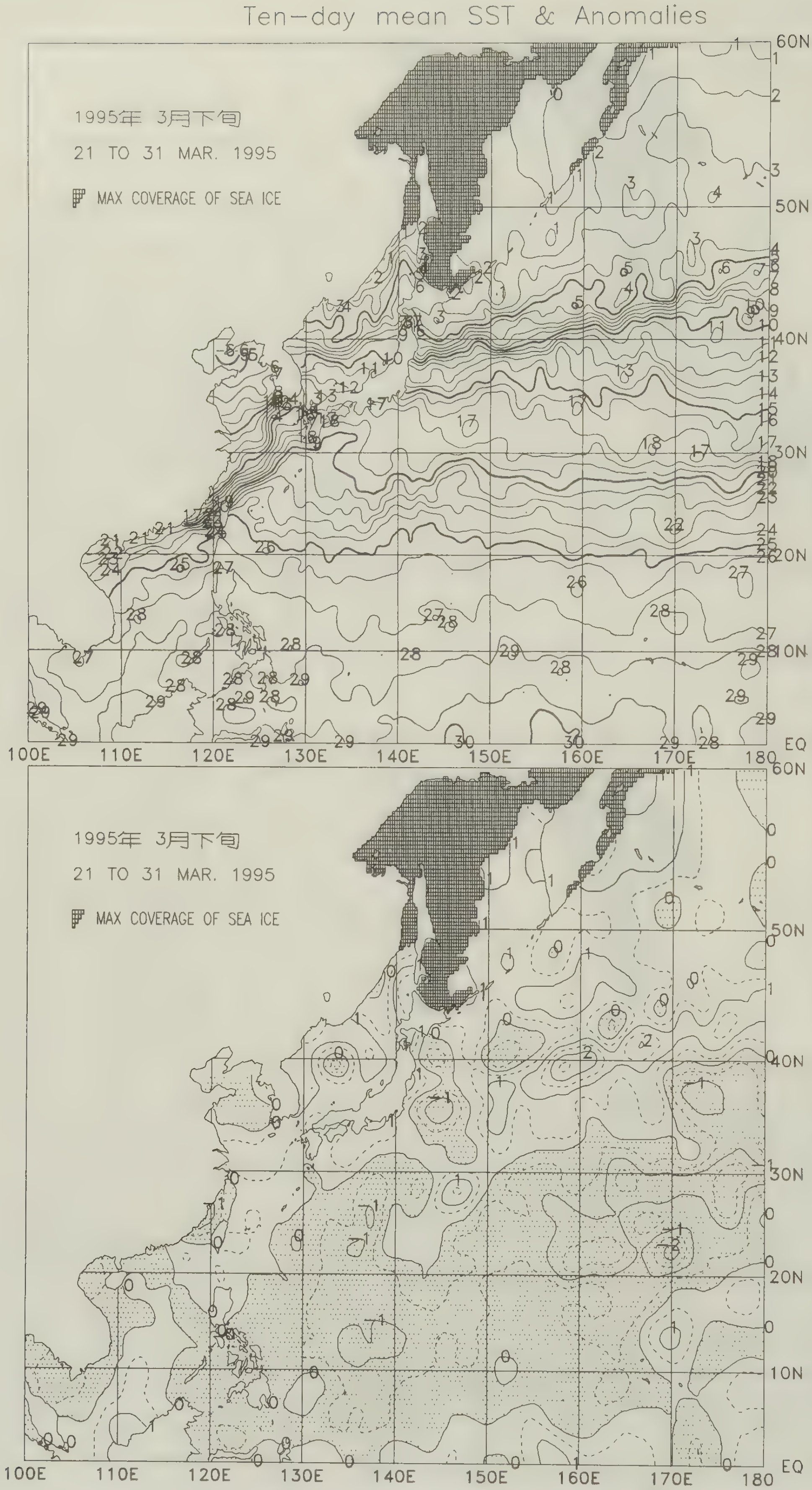
地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣島(47918)	22.6	+0.7
那　覇(47936)	21.1	+0.1
名　瀬(47909)	-	-
足摺岬(47898)	15.8	-0.2
潮　岬(47778)	-	-
御前崎(47655)	12.9	+1.1
八丈島(47678)	17.8	+0.6
館　山(47672)	13.9	+0.3
小名浜(47598)	10.1	+1.2
宮　古(47585)	6.8	+1.2
浦　河(47426)	2.3	+0.8
紋　別(47435)	-0.7	-
稚　内(47401)	2.6	-
寿　都(47421)	6.7	-
江　差(47428)	7.4	-
飛　島(47587)	9.6	+1.1
輪　島(47600)	9.1	+0.7
西　郷(47740)	11.5	-
浜　田(47755)	12.1	-
厳　原(47800)	14.2	-
牛　深(47838)	15.0	-

海洋気象ブイロボット
旬平均海面水温(℃)
Ocean Data Buoy SST

日本海	37.9N,134.5E	10.2
四国沖	29.0N,135.0E	19.3
東シナ海	28.2N,126.3E	-

第22図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(1995年 3月中旬)

Fig.22 Ten-day mean SSTs in the western North Pacific (top) and anomalies (bottom) for the 2nd ten-day period in MAR 1995. Anomalies are computed from the JMA climatology (1961-90). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.



旬平均沿岸水温(℃)
Coastal Water Temperature

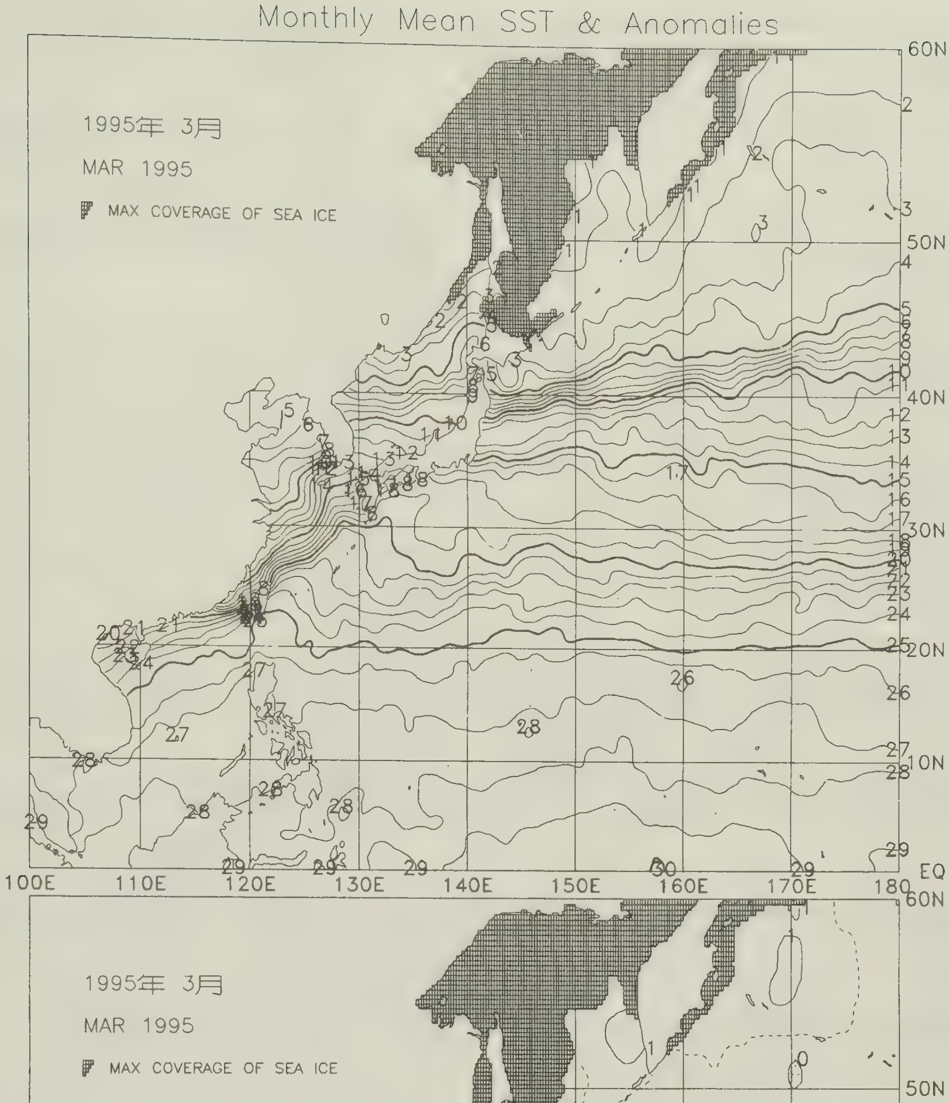
地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣島(47918)	23.6	+1.3
那　覇(47936)	21.5	+0.5
名　瀬(47909)	-	-
足摺岬(47898)	16.6	+0.2
潮　岬(47778)	-	-
御前崎(47655)	13.7	+1.0
八丈島(47678)	17.8	+0.3
館　山(47672)	14.6	+0.5
小名浜(47598)	10.8	+1.9
宮　古(47585)	6.7	+1.0
浦　河(47426)	2.2	+0.6
紋　別(47435)	0.8	-
稚　内(47401)	3.2	-
寿　都(47421)	7.5	-
江　差(47428)	7.8	-
飛　島(47587)	9.9	+1.0
輪　島(47600)	8.9	−0.2
西　郷(47740)	11.7	-
浜　田(47755)	13.3	-
厳　原(47800)	14.2	-
牛　深(47838)	15.5	-

海洋気象ブイロボット
旬平均海面水温(℃)
Ocean Data Buoy SST

地点	位置	水温
日本海	37.9N,134.5E	9.6
四国沖	29.0N,135.0E	19.4
東シナ海	28.2N,126.3E	-

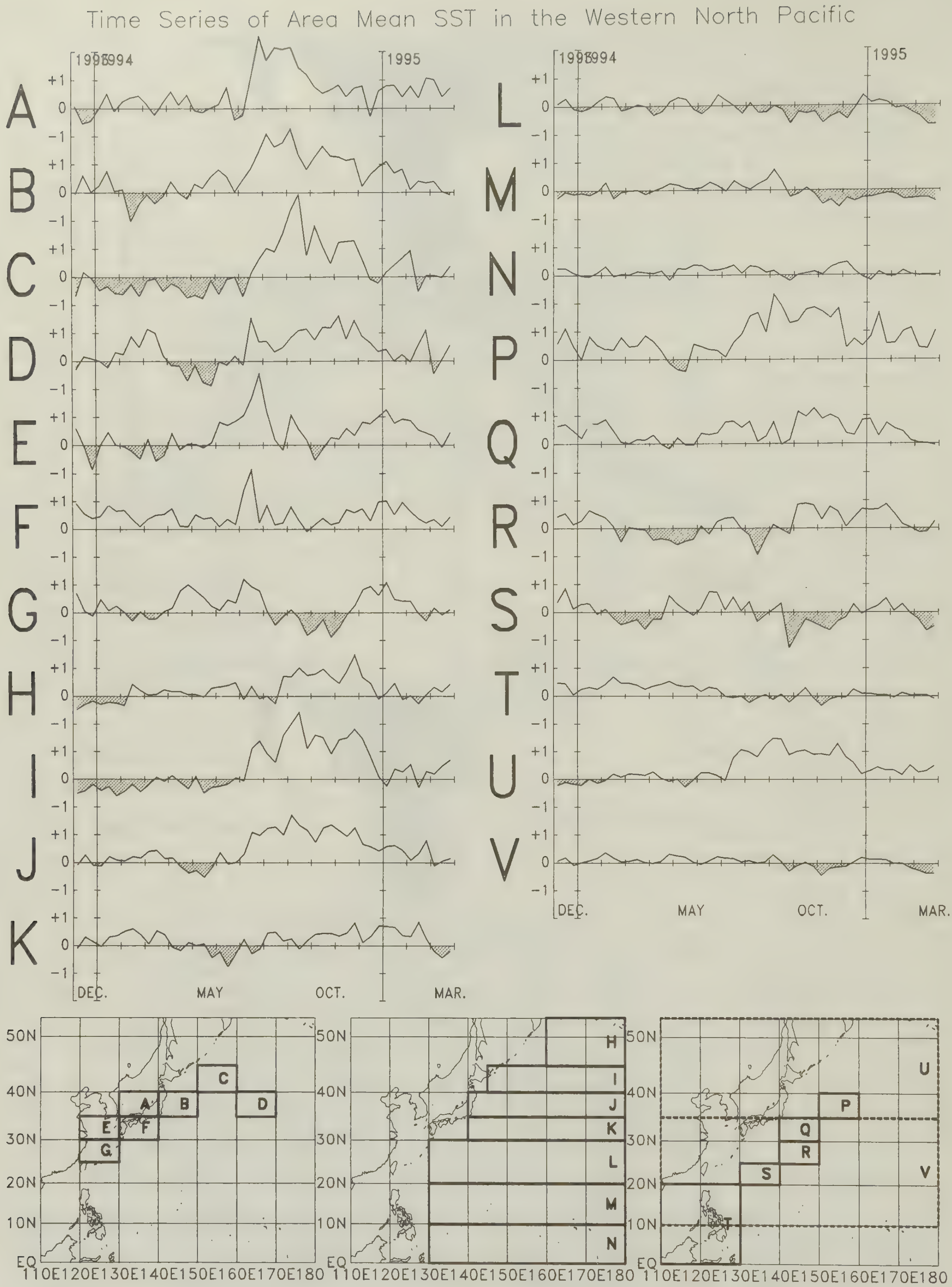
第23図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(1995年 3月下旬)

Fig.23 Ten−day mean SSTs in the western North Pacific (top) and anomalies (bottom) for the 3rd ten−day period in MAR 1995. Anomalies are computed from the JMA climatology (1961−90). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.



第24図 北西太平洋月平均海面水温図(上)及び偏差図(下)(1995年 3月)

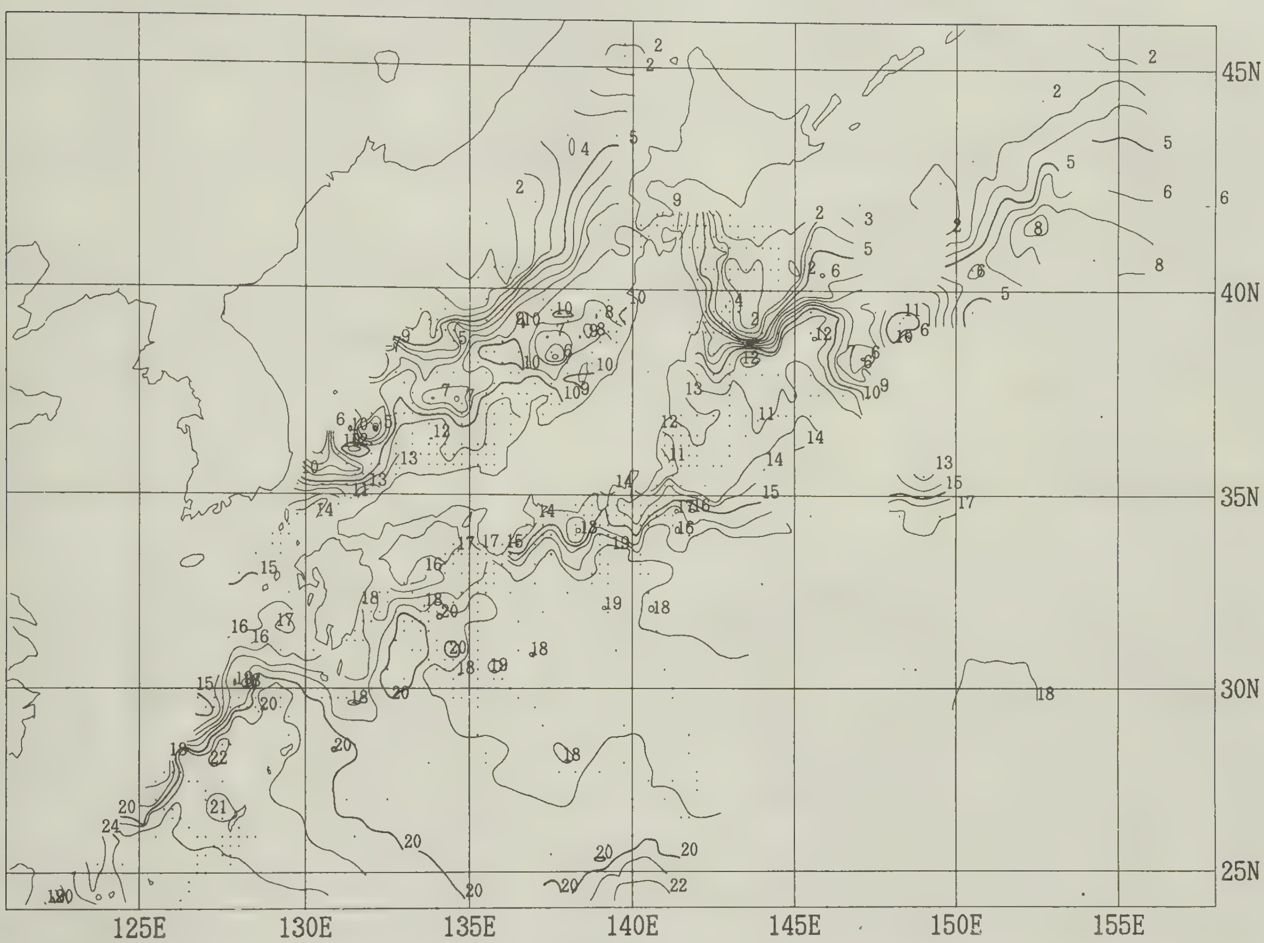
Fig.24 Monthly mean SSTs in the western North Pacific (top) and anomalies (bottom) for MAR 1995. Anomalies are computed from the JMA climatology (1961–1990). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.



第25図　北西太平洋旬平均海面水温平年偏差時系列図

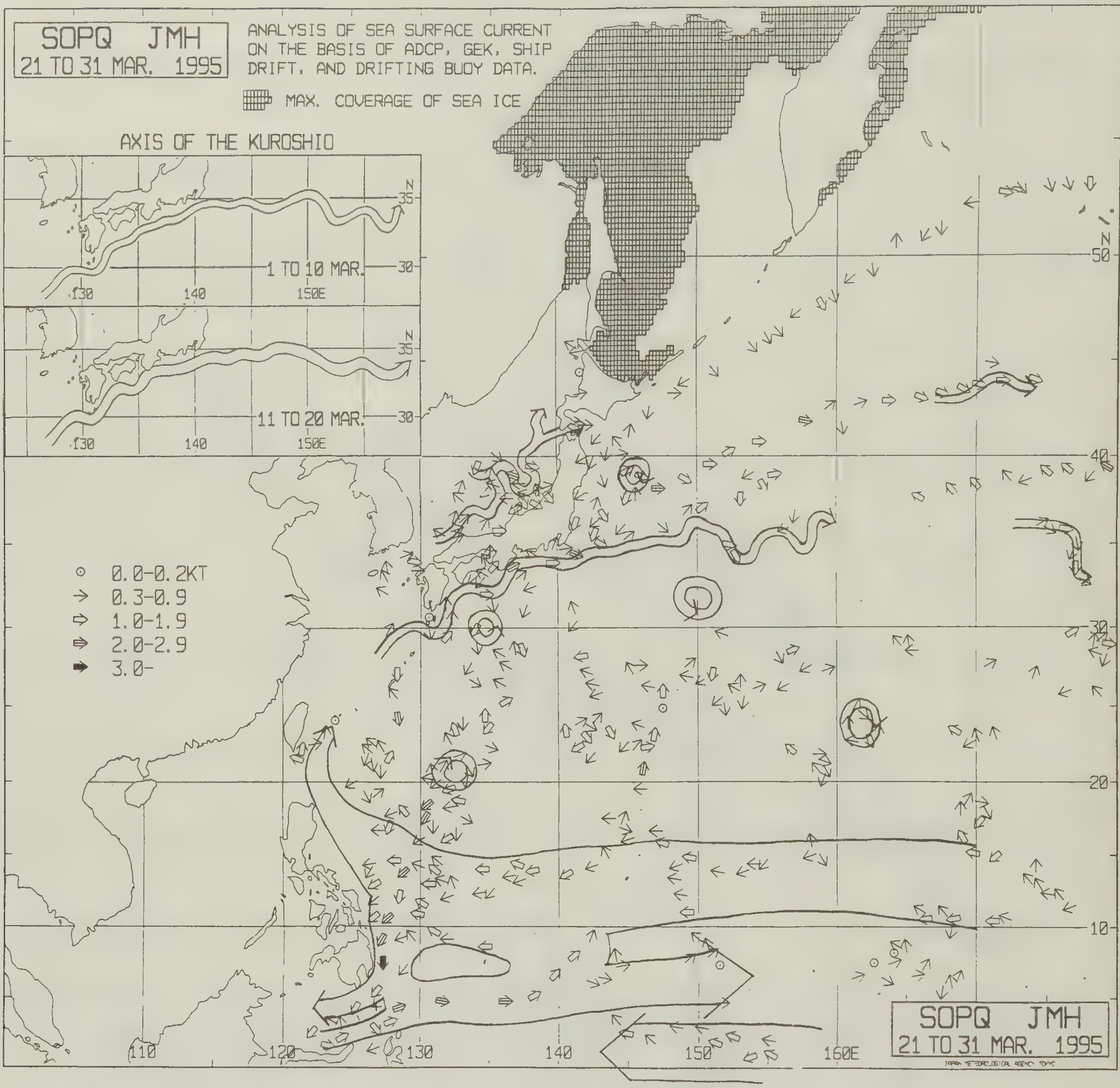
Fig.25 Time series of the ten-day mean sea surface temperature anomalies (° C) in the western North Pacific for the areas indicated at the bottom. Negative anomalies are shaded. Anomalies are computed from the JMA climatology (1961-90).

100m Temperatures in Seas Adjacent to Japan



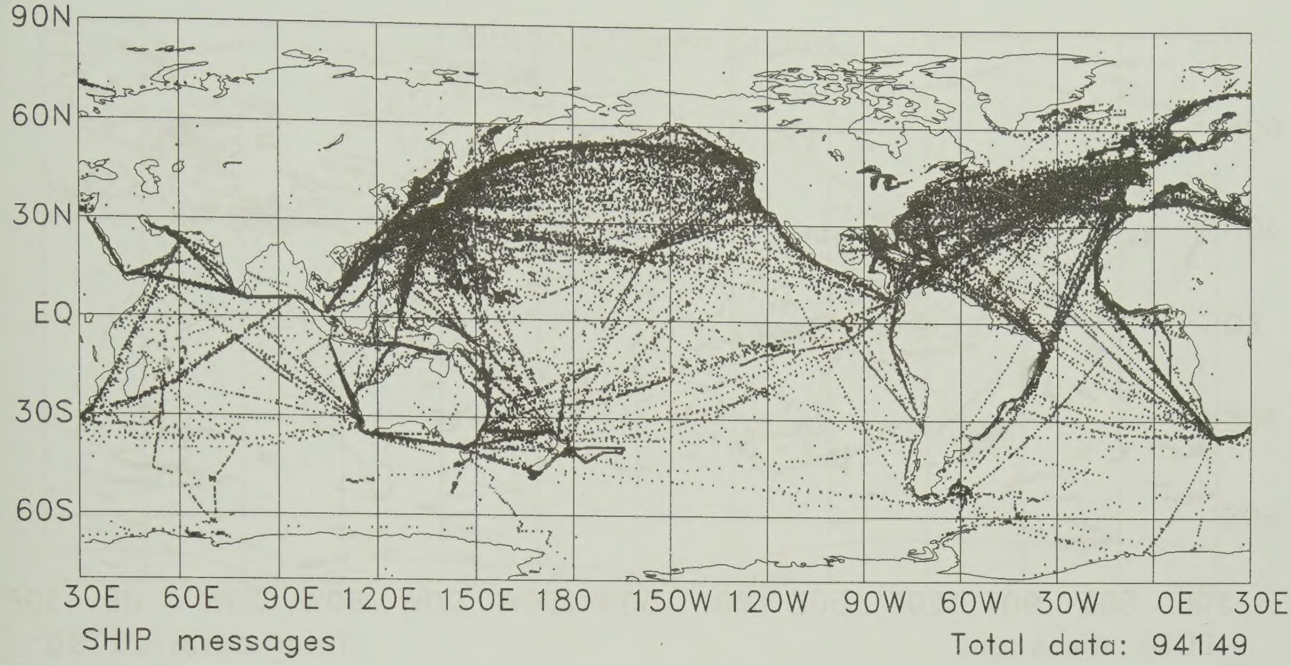
第26図　日本近海表層水温(深さ100m)図 (1995年 3月)

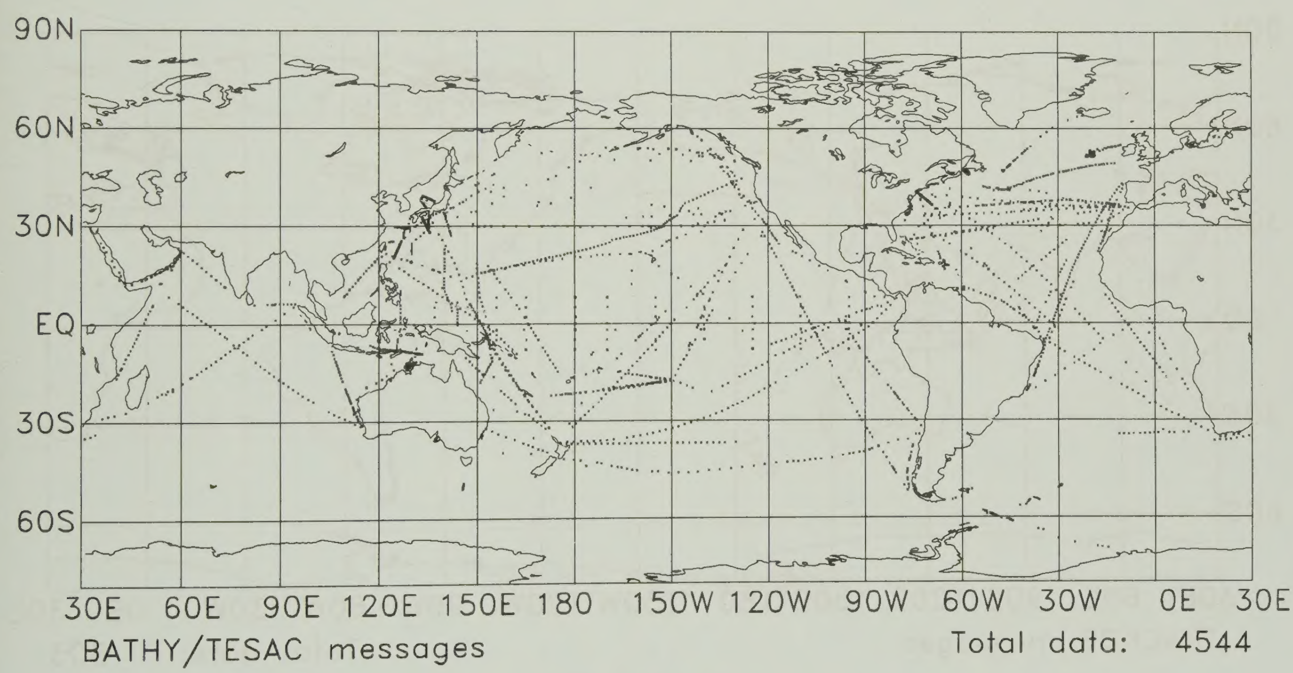
Fig.26 Subsurface (100m) temperatures in seas adjacent to Japan for March 1995. Contour interval is 1°C. Observation points are denoted by dots.



第27図　北西太平洋旬平均海流図（1995年 3月下旬）

Fig.27 Ten-day analysis of the sea surface current in the western North Pacific for the 3rd ten-day period in MAR 1995. Small arrows indicate sea surface currents measured with acoustic Doppler current profilers, GEKs deployed in research vessels, and ship drift by merchant ships/drifting buoys during the month. Major currents such as the Kuroshio and the North Equatorial Current are denoted by larger open arrows.

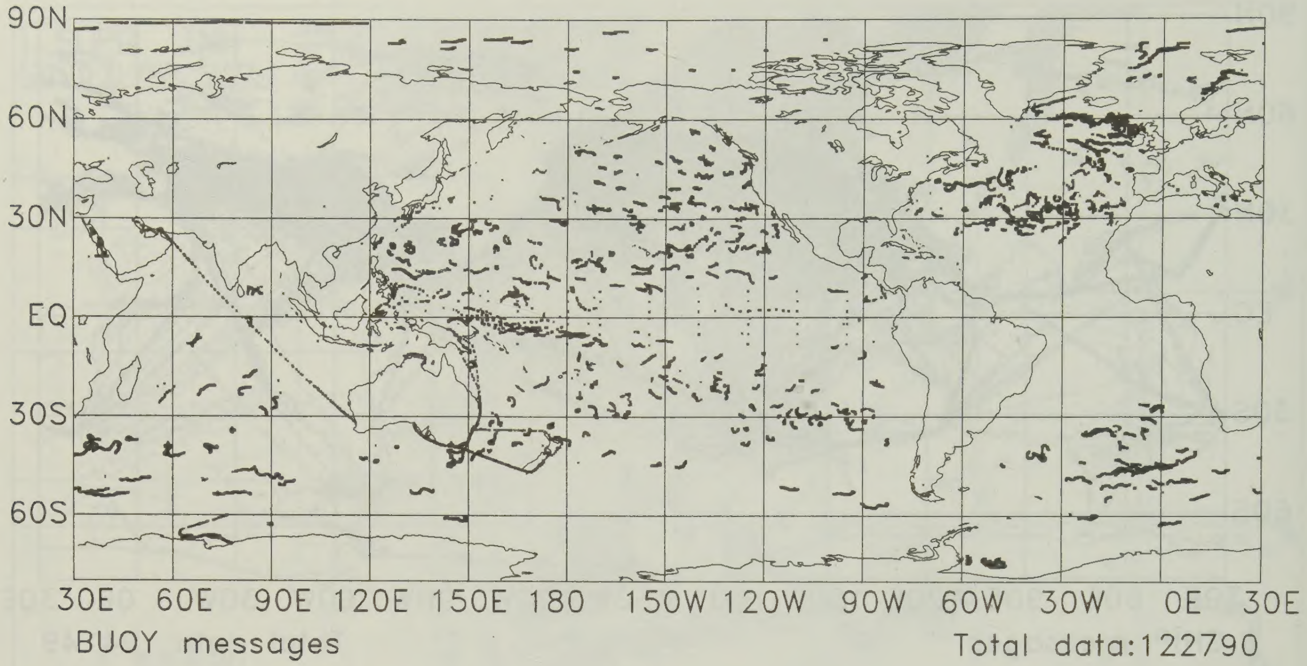


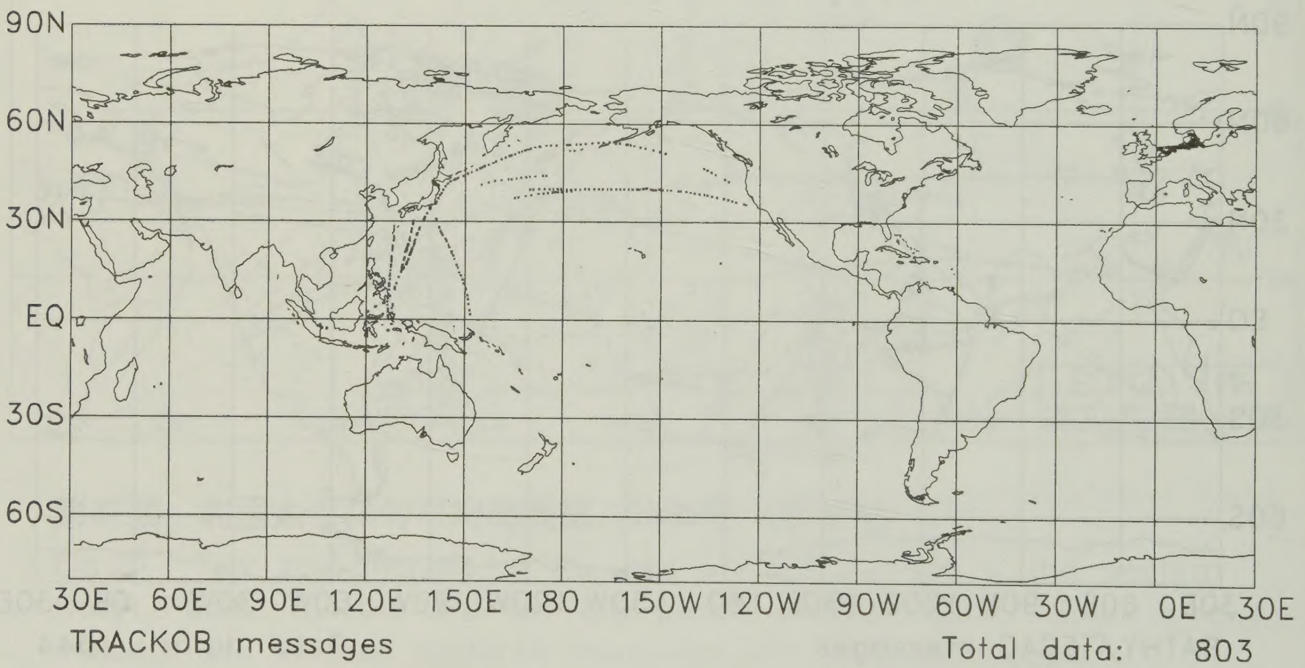


第28-1図　測点分布図(1995年 3月)

Fig.28−1　Geographical distribution of SHIP messages (SST data, top) and BATHY/TESAC messages (subsurface temperature data, bottom) for MAR 1995.

Geographical Distribution of Oceanographic Data





第28-2図 測点分布図(1995年 3月)

Fig.28-2 Geographical distribution of BUOY messages (buoy drift and SST data, top) and TRACKOB messages (ship drift and SST data, bottom) for MAR 1995.

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